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MANNS' 1923
SUPERIOR SEEDS

SEVEN PACKETS ONE OF EACH VARIETY POSTPAID 35¢

ESTABLISHED 1887

J. MANNS & CO.

Forrest & Hillen Sts. BALTIMORE, MD. At Belair Market

J. MANNS & CO.

ESTABLISHED 1887

Forrest and Hillen Sts. **Baltimore, Md.**

36th Annual Catalog

Tested, Proven and Dependable Seeds

General Farm and Garden Supplies

To Our Customers and Friends:

Many years of practical experience and a thorough knowledge of the seed business make it possible for us to supply SUPERIOR SEEDS, moderately priced, in the varieties best suited to the individual needs of our many customers in their various lines of agricultural endeavor.

With a full realization that our success depends largely upon the success you attain with our products, we always strive to serve in a manner consistent with the high confidence placed in us.

The selection and re-selection of Superior strains is of greatest importance for your success and for this purpose trial grounds are operated under personal supervision. We are also carefully using the latest improved facilities for testing the vitality of all seeds sent out.

This service and protection is worthy of your consideration, and we therefore ask your attention to the following pages, trusting that we may again have the privilege of serving you during the entire year.

Respectfully yours,

J. MANNS & CO.

ORDERS. Be sure to sign your name plainly and give full shipping instructions.

REMITTANCES should be made by Post Office Money Orders, Registered Letters, Express Money Orders, or Draft. For amounts up to one dollar clean postage stamps will be accepted. Our terms are **net cash.**

SHIPMENTS. We deliver free to any Post Office in the United States seeds by the packet, ounce, and quarter pound. For larger quantities postage must be added to the prices quoted. (See page 64 for rates.) Agricultural Seeds, Implements, Fertilizers and other heavy and bulky goods are sent by Freight or Express at purchaser's expense.

NON-WARRANTY. It is very evident to anyone who gives the matter the slightest thought that it is to our best interests to send out only such stock as will grow and prove true to name and description. There are, however, so many contingencies to be encountered, entirely beyond our control, such as the weather, soil and other conditions that: We give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter of any Seeds, Plants or Bulbs we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

NOTE—INDEX AND PARCEL POST RATES, PAGE 64.

MANNS' SUPERIOR VEGETABLE SEEDS

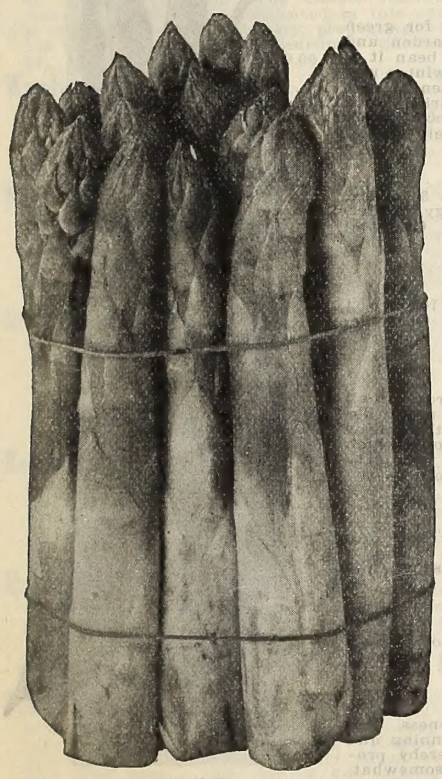
Representing varieties which are known to our customers and ourselves as being the best obtainable.

Offered at lowest possible prices consistent with the high quality of our tested and proven strains

Artichoke

Jerusalem or Tuberous Rooted.

Grown exclusively for their large potato-like roots which are valuable for feeding hogs and for table use, often yielding over two tons per acre. Plant in March or April, two feet apart in 3 foot rows and cover 2 inches deep. 3 bushels per acre or 1 quart to 60 feet of row. They should not be dug in the fall but allowed to remain in the ground to be gathered as needed. An excellent hog feed, preventing cholera, and exceedingly nutritious. When once planted they will continuously come up afterwards, hence for a field crop it is best to select a piece of land which is to be devoted to **Artichokes** exclusively and an annual crop will be produced for years. **Price, ¼ pk., 35c; pk., $1.00; bu., $3.50.**



Palmetto Asparagus.

Asparagus

1 ounce to 60 feet of drill; 1 lb. per acre; 3,000 plants per acre.

Asparagus grows easily in almost any good soil, but best results are obtained in well-enriched, deeply dug, sandy loam. A well cared for bed improves with age, and lasts for many years. It may be grown from seed, but much time is saved by planting roots.

The Asparagus plant is slow to die down in the fall, so that the roots cannot safely be dug until about November 1st. By this time the soil is so cool that the plants do not root readily, consequently many are winter killed. For this reason, **We advise only spring planting for any point north of Washington, D. C.**

We strongly urge all those having enough available space to put in a bed for their own use, following carefully the cultural directions given below.

If you wish to grow plants from the seed yourself, pour warm water on the seed and allow it to stand until cool; pour it off and repeat two or three times with fresh warm water. Sow in spring in drills about eighteen inches apart and two inches deep in light, rich soil, planting fifteen to twenty seeds to each foot of row. When the plants are well up, thin to about one inch apart and give frequent and thorough cultivation during the summer. If this has been well done, the plants will be fit to set the next spring.

The permanent bed should be prepared by deep plowing or spading and thoroughly enriching the ground with stable manure or other fertilizer; a moist, sandy soil is best. If the sub-soil is not naturally loose and friable, it should be made so by thoroughly stirring with a sub-soil plow or spade. Set the plants about four inches deep and one to two feet apart in rows four to six feet apart. After the plants are well started, give frequent and thorough cultivation. Early the next spring spade in a heavy dressing of manure and about one quart of salt and double the quantity of fresh wood ashes to each square rod and cultivate well as long as the size of plants will permit, or until they begin to die down. The next season the bed may be cut over two or three times, but if this is done, all the shoots, no matter how small, should be cut. After the final cutting, give a good dressing of manure, ashes and salt. Cultivate frequently until the plants meet in the rows.

In autumn after the tops are fully ripe and yellow, they should be cut and burned. A bed fifteen by fifty feet, requiring about one hundred plants, if well cultivated and manured, should give the following season an abundant supply for an ordinary family and continue productive for eight or ten years.

Giant Argenteuil Famous French variety noted for its earliness and size. It resists rust better than some domestic sorts and is also very prolific, producing an abundance of light green, tender shoots. **Pkt., 5c; ¼ lb., 30c; lb., $1.00.**

Palmetto This is the most popular variety grown for general garden purposes, being more prolific than any other and very uniform. Shoots are light green and tinted slightly with pink. They are not so thick as the Colossal or other white types and are frequently deep green when allowed to grow above ground. This gives a really splendid flaver. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

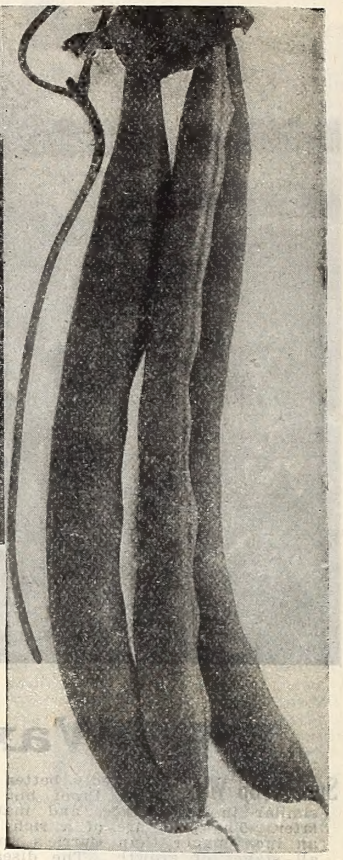
Columbian Mammoth White A sport from Conover's Colossal. This splendid, large stalked variety produces white shoots above the surface and requires little if any blanching. Does not always come true from seed, but the green sorts can readily be discarded. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Conover's Colossal One of the largest and most popular green varieties; stalks are bright green, often tinged purple at the top; very tender and of fine quality. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Asparagus Roots

From one to two years may be saved by planting Asparagus roots instead of seed. We have found the demand for roots to be greater than the quantities obtainable, and therefore suggest that orders be placed early. **Choice, 2-yr. old roots, all leading varieties, $2.00 per 100. Special price on large quantities.**

White Kentucky Wonder or Burger's Stringless Green Pod.



Varieties Used as Shell Beans

Dwarf Horticultural, Fordhook Favorite, and Davis' White Kidney Wax

Three very satisfactory shell bean sorts have been listed previously.

White Marrowfat This is a very prolific variety and has become a choice family sort both for green shells and dry beans. Pods are broad, about 5½ inches long, medium green changing to yellow, having large clear white seeds which cook very dry and mealy. **Qt., 30c; pk., $2.00; bu., $7.50.**

Royal Dwarf or White Kidney Excellent late variety, green, shelled or dry. Seeds are large, white, kidney shaped, and of fine quality. **Qt., 40c; pk., $2.25; bu., $8.50.**

White Navy or Boston Pea Bean The standard small seeded, pure white variety which has become so popular for its baking qualities. The yield is invariably very heavy. Sow during June and July in rows three feet apart dropping 2 to 3 seeds a foot apart in the rows. **Qt., 30c; pk., $2.00; bu., $7.50.**

Broad Erfurt Of foreign origin and entirely different from any other variety, being larger than the ordinary lima, with much darker pods. This sort will prove profitable for market gardeners who have Italian and Spanish trade. **Qt., 40c; pk., $2.25.**

White Marrowfat.

Edible-Podded Pole Beans

For Cultural Directions See Pole Limas.

Burger's Stringless Green Pod or White Kentucky Wonder A new pole variety of great merit, bearing large, brittle, stringless pods of excellent flavor, dark green in color. It resembles the Kentucky Wonder in form of pod but is much earlier, more productive and bears longer. Seeds white, fine for baking. **Qt., 50c; pk., $2.50; bu., $9.00.**

Kentucky Wonder or Old Homestead This old standard variety is early and produces round, green pods about 9 inches long. Splendid for use as snaps for the home gardener as it continues to bear for a long period. Seed light brown. **Qt., 50c; pk., $2.50; bu., $9.00.**

White Creaseback Excellent as a snap bean as well as dried for winter use. Pods 5 inches long, fleshy, stringless and borne in clusters. Very productive. **Qt., 50c; pk., $2.50; bu., $9.00.**

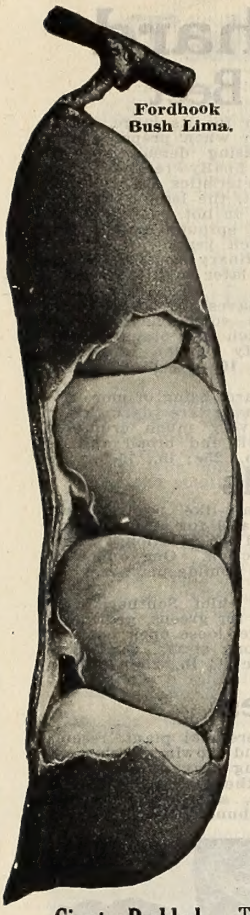
Horticultural Cranberry or Wren's Egg An old favorite, excellent both as a snap and shell bean. Medium early, producing large quantities of 5 and 6 inch pods which are broad, thick, and of fine flavor. **Qt., 50c; pk., $2.50; bu., $9.00.**

Cut Short, Red Speckled or Corn Hill Popular variety for planting among corn instead of using poles. Will give a good crop of fine quality, short, round, tender pods. **Qt., 45c; pk., $2.50; bu., $9.00.**

Lazy Wife One of the best general purpose pole beans; of superior quality as a snap, green shelled or dried bean. Pods which are borne abundantly throughout the summer are very easily gathered and entirely stringless, brittle, light green in color and of a mild, sweet flavor. Seed pure white, 6 to 8 in each pod. **Qt., 50c; pk., $2.50; bu., $9.00.**

Yard Long, Celestial or Asparagus Bean Somewhat of a curiousity and yet possessing excellent qualities. It is very prolific, absolutely rust proof and a rank grower. It will produce pods 18 to 24 and sometimes 30 inches long. An excellent table vegetable, the pods being tender, stringless and of a rich asparagus flavor. **Oz., 10c; pt., $1.00.**

Pole Lima Beans



Fordhook Bush Lima.

1 quart to 150 hills; 8 to 10 quarts per acre.

Pole beans do not bear as early as the bush varieties but they are more productive, their bearing season is longer and they are more easily gathered. They succeed best in a warm sandy loam which has been enriched with well rotted manure. If poles are used they should be set three to four feet apart each way. After the ground has become warm and dry, plant 4 to 6 beans to a pole and when well started thin out to 2 or 3 plants to a pole. By placing the seed eyes down they will germinate more quickly and for this reason are less liable to rot. Cultivate frequently but shallow.

Early Leviathan Fully a week earlier than any other pole variety. The Early Leviathan stands supreme because of its combined qualities, earliness, size and productiveness. The large, well filled pods are borne in clusters of five to ten and are spaced over the entire vine. They are well filled with large fleshy beans of excellent quality, delicate pale green in color. **Pt., 25c; qt., 45c; pk., $2.75; bu., $9.50.**

Seibert's Large Early Early, very productive and of good quality; pods dark green, well filled with 3 to 4 large beans. **Qt., 45c; pk., $2.75; bu., $9.50.**

Carpinteria A very desirable pole lima for the home and market garden, producing an abundance of large four-seeded, medium green pods. The color is distinctive in having a decided greenish tint, an indication of very finest quality. The beans are thin skinned, delicious flavor and retain the distinctly green tinge even when dried. **Qt., 50c; pk., $2.75; bu., $10.00.**

Ideal One of the largest and most valuable of the medium late varieties, producing a tremendous crop of seven-inch pods, which are filled with five to six large beans of excellent quality. Seed large, ovid, flat white with slight greenish tinge. Splendid for market gardeners. **Qt., 50c; pk., $3.00; bu., $11.00.**

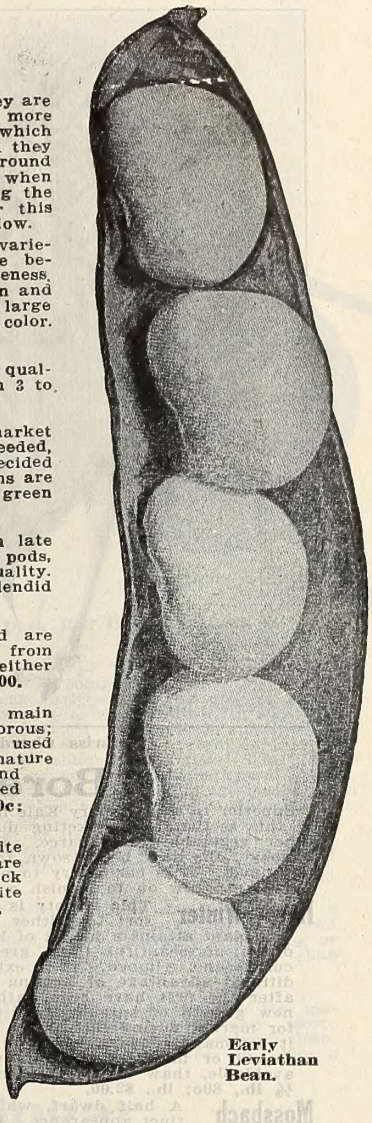
Ford's Mammoth Podded The pods average 7 inches and are produced in great clusters, with from 5 to 6 beans per pod, of most excellent quality for using either green or dry. Medium early. **Qt., 45c; pk., $2.75; bu., $10.00.**

King of the Garden This is the best and most popular main crop variety. Vines are strong and vigorous; setting pods early and continuing to bear until frost. Is used extensively by market gardeners because of its very prolific nature and the immense size of the pods, which are very straight and handsome; of medium dark green color, broad, flat and filled with four or five large white beans of finest quality. **Qt., 50c; pk., $2.50; bu., $9.50.**

Challenger or Dreer's Pole Vigorous, productive, and quite early, producing pods which are much thicker than any other sort and filled with four thick beans so closely set that the ends are flattened. A favorite among market gardeners. **Qt., 50c; pk., $3.00; bu., $11.00.**

Giant Podded The largest podded lima in cultivation; extremely vigorous in growth, mid-season. Pods are borne in clusters of 6 to 8 and measure 7 inches long and 1½ inches broad. The beans are extra large and of excellent quality. **Qt., 50c; pk., $2.75; bu., $10.00.**

Carolina or Sieva Beans small and white, somewhat like Henderson's Bush Lima, the butter bean of the South; pods 3 inches long and curved, very early, vigorous and productive. **Pt., 25c; qt., 45c; pk., $2.75.**



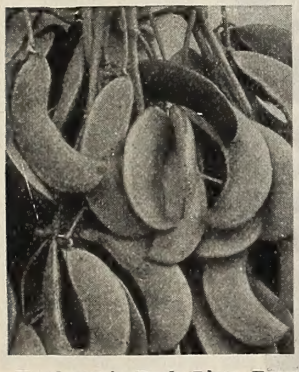
Early Leviathan Bean.

Dwarf or Bush Lima Beans

Large seeded sorts, 1 quart to 100 hills; 1 bushel to the acre.
Small seeded sorts, 1 quart to 150 hills; 3 pecks to the acre.

These varieties require no support, are about two weeks earlier than the pole beans, and can be planted closer in the rows. They are therefore used by large growers and by gardeners who do not find it convenient to use poles. After danger of frost is past and the ground has become warm, plant in 3 ft. rows dropping 3 seeds to a hill and the hills 15 inches apart.

Early Giant Bush Lima The largest and earliest bush lima; two weeks earlier than Fordhook, very prolific and of excellent quality. Pods contain 4 to 5 large, close setting beans, and are borne in clusters of 5 to 8. Plant very vigorous and upright, often attaining a height of 30 inches. **Qt., 50c; pk., $3.50; bu., $12.00.**



Henderson's Bush Lima Beans.

Fordhook Bush Lima A most excellent variety and exceedingly popular with market gardeners. The plants are freely branching and very erect in their growth. Four or five large, very thick beans are contained in each pod and the plants continue to produce large quantities from July until frost. The green beans even when full size are tender, juicy and sweet when cooked, being a distinct improvement over the rather dry and mealy character of other varieties of this Potato Lima type. **Pt., 30c; qt., 50c; pk., $3.00; bu., $11.00.**

Burpee's Improved Bush Lima A very prolific mid-season variety of very hardy, vigorous and true bush growth, bearing clusters of 5 to 8 pods measuring 5 to 6 inches long. The pods are borne abundantly, enormous in size and well filled with handsome beans which are both larger and thicker than those of the regular Burpee's Bush Lima. **Qt., 50c; pk., $3.00; bu., $11.00.**

Dreer's Wonder Bush Lima A thick seeded sort of very high quality; equally productive with Burpee's but a week later. **Pt., 30c; qt., 50c; pk., $3.00; bu., $11.00.**

Henderson's Bush Lima This variety is the most popular of the small seeded bush varieties and produces large crops of 3 inch pods containing 3 to 4 small, flat, white beans of good quality. Hardy, early and immensely productive; and of excellent quality either green shelled or dry. **Pt., 25c; qt., 45c; pk., $2.50; bu., $9.00.**

Wood's Prolific or Henderson's Improved Bush Lima Greatly resembles Henderson's Bush Lima in form and habit of growth, but produces much larger and thicker beans, equally as good in quality and very prolific. **Pt., 30c; qt., 50c; pk., $2.75; bu., $10.00.**

Swiss Chard—Lucullus.

Swiss Chard
or Spinach Beet

This excellent vegetable is grown for its large, broad leaves which make a delicious dish when prepared like spinach or asparagus. The increasing demand proves conclusively that this variety is finally receiving the attention its many valuable characteristics deserve. It produces all tops and no edible root, the leaves standing 2 to 2½ ft. high, growing well even in hot weather when spinach fails altogether. It soon sprouts again after cutting and gives several crops each year.

Plant the seeds the same as ordinary beet seeds but thin out at first to 6 inches apart, later to 1 foot apart. Ready for use in about 60 days.

Large Ribbed White The large leaves are pale yellowish-green in color, having very broad, white, tender midribs which are prepared and served like asparagus. The leafy portion is cooked similar to spinach. **Pkt., 5c; oz., 10c; ¼ lb., 20c; lb., 60c.**

Lucullus An improved type of Chard, being of more upright growth. The leaves are dark green with white mid-rib and veins; very much crumpled and curled. The stalks are thick and broad and as large as rhubarb. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

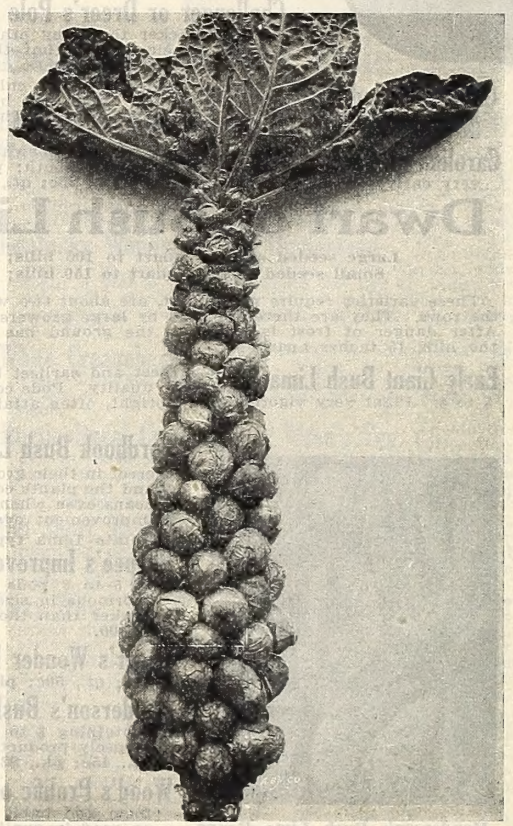
Collards

This is a tall, loose leaved kale-like plant grown throughout the South for table use and for stock feeding purposes. Collards usually succeed in locations where cabbage cannot be grown to perfection. One ounce of seed will sow 300 feet of drill; two pounds per acre.

Georgia, Southern or Creole The chief Southern variety for greens, growing 2 to 3 feet high and forming a large, loose open head or cluster of leaves with a rather long stem. Quality is improved by a light frost. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Chives

Chives are a small hardy perennial plant, resembling the onion in appearance and growing in clusters. They are grown for the young leaves, which are produced freely from early in the spring and give a mild onion flavor to sausages, salads and various dishes. **Pkt., 10c. Roots per bunch, 10c.**



Brussels Sprouts—New Danish Prize.

Borecole

Superior to the ordinary Kale in quality and extensively grown in this section for marketing during the winter months, when other vegetables are scarce. Borecole should be grown like cabbage, the seed being sown from early spring to the middle of August. It is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply.

Hardy Winter This variety is the most salable and profitable sort for either the home or market gardener. The plant attains a height of 18 inches and produces an abundance of beautiful light green leaves, which are densely curled and crimped. It is extremely hardy and has the additional advantage of putting forth a second crop of leaves after the first have been gathered or have fallen off. This new growth of sprouts is of the finest quality and is ready for market during the winter months and early spring, when it commands a fancy price in the markets. It is better not to cut or handle the plants while frozen but if this is unavoidable, thaw them out in cold water. **Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $2.00.**

Mossbach A half dwarf, white ribbed variety of very distinct appearance. Its gracefully curled light green leaves are self-folding which causes the heart to blanch to a beautiful yellow. It matures very early and is superior to all other varieties in quality and flavor for fall use. It is not hardy however, and should be gathered before frost or protected. **Pkt., 10c; oz., 20c; ¼ lb., 60c; lb., $2.00.**

Dwarf Green Scotch This excellent sort is low spreading and compact in its nature of growth, forming a mass of leaves which are beautifully curled and moss-like in appearance. The color is an attractive bright green and the quality is excellent. Being quite hardy, the plants will remain green throughout the entire winter where the temperature does not fall below zero. This strain is also called Norfolk Kale and is extensively grown in this section and farther South for the Northern markets. **Pkt., 10c; ¼ lb., 30c; lb., $1.00.**

Brussels Sprouts

1 oz. will sow 500 ft. of drill or 3,000 plants.

Brussels Sprouts are grown for use during the fall and winter months. An abundance of sprouts, resembling miniature cabbages are produced over the entire stem from tip to the ground. When the young sprouts are well formed the lower leaves should be stripped off to aid the formation of the heads. Sow the seed thinly in drills in April for early crop or in early June for a late fall crop. After the plants are 6 inches high transplant to rows which are 3 to 4 ft. apart and 18 to 24 inches apart in the rows. The plants are hardy and in this section will live out through the winter without protection. The sprouts are improved in quality and flavor by frost.

Danish Prize Found to be the best variety both in quality and productiveness. The sprouts develop very evenly over the entire stem, the lower sprouts being as tightly folded and as solid as those higher up. Consequently a large crop can be gathered. Unsurpassed in quality. **Pkt., 10c; oz., 30c; ¼ lb., 90c.**

Table Beets

1 oz. to 50 feet of drill; 5 lbs. to the acre.

The soil for beets should be light, rich, fine and deeply cultivated. Smooth beets cannot be grown if fresh manure is used. If wanted very early, sow in hot beds and transplant, cutting off the outer leaves. For early outdoor crop plant the seeds about 1 inch apart and 1 inch deep in rows 1 to 2 feet apart, firming the soil about the seeds by walking on the row. This should be done as soon as the ground can be worked and for table use, plantings should be made every three weeks. Thin out the plants to 3 inches apart. For main crop sow in the early part of May while for winter use they may be planted up to July 1st.

Extra Early Flat Egyptian One of the very earliest, excellent for forcing and early crop. Roots are distinctly flat, very dark red, have very small tap root and are of fine quality when young. They measure 2 inches in diameter when mature and have very small tops. **Pkt., 5c; ¼ lb., 20c; lb., 50c.**

New Model "Early Spring" A very good early variety for growing under sash or in the open ground. Perfect in shape and of a beautiful red color, very uniform in shape and size, the entire crop maturing during the same week. Short tap root and small tops. **Pkt., 10c; ¼ lb., 30c; lb., $1.00.**

Crosby's Egyptian This is the most popular early variety for the trucker or home gardener, as the roots are smooth, globe shaped, deep red in color, tender, sweet and richly palatable when served. This should not be confused with Flat Egyptian as it is similar only in point of earliness, and size of tops and tap root. **Pkt., 5c and 10c; ¼ lb., 20c; lb., 60c.**

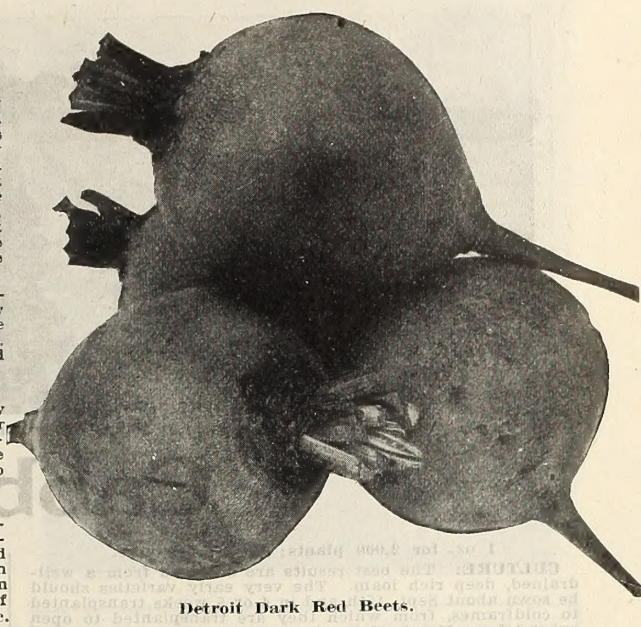
Early Eclipse An early variety with small tops and medium sized, round, bright red roots; flesh dark red with zones of lighter color. **Pkt., 5c and 10c; ¼ lb., 20c; lb., 50c.**

Electric Extra early, almost round, with very small leaves set close to the crown, deep red, smooth skin, with flesh crimson slightly zoned. Quality is good, being tender, sweet and free from fibre. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Crimson Globe An excellent main crop variety of medium size, globe shaped, with a remarkably smooth surface and high in quality, being tender, crisp and sweet, never stringy. The flesh is very deep purple, slightly zoned in lighter and darker shades. Is without rootlets and the foliage is small and attractive. Extensively used by market gardeners. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Eureka Early sort, growing 3 to 4 inches in diameter. Of good quality and color and nearly as early as the extra early varieties. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Edmund's Blood Turnip Second early; short tops, nearly round, flesh purplish red, with little zoning; a good keeper. **Pkt., 5c; ¼ lb., 20c; lb., 65c.**



Detroit Dark Red Beets.

Detroit Dark Red Careful comparison with all prominent varieties on the market prove Detroit Dark Red to be the most uniform in size and shape, the most attractive in color, and unsurpassed in quality. The tops are small and upright in growth with dark green leaves shaded with red. The roots are globular, of medium size, very smooth and dark blood red in color. Excellent for bunching, making a handsome appearance when offered for sale. Decidedly the best variety for either the home or market gardener, and on account of its uniformly deep rich color is most desirable for canning. May be planted for early or main crop **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Half Long Blood Excellent second early sort and a good keeper. Roots half long and smooth, distinctly zoned. Very desirable for storing or pickling as it retains its good quality longer than other varieties. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Dewing's Improved Blood Turnip A good quality, medium early sort; turnip shaped and of good size Deeply colored flesh, tops medium size. **Pkt., 5c; ¼ lb., 15c; lb., 40c; 5 lbs., $1.75.**

Beets—Mangel and Sugar

The Mangel Wurzel, also called Mangel, Field Beet and Cow Beet is extremely valuable for stock feed. Very large yields are produced on almost any soil, but a deep, rich loam is most suitable.

Sow 1 ounce to 100 feet of drill, 6 lbs. to the acre in drills and 15 to 20 lbs. to the acre if sown broadcast.

Plant from middle of May to middle of June in drills about 2½ feet apart and 1 inch to 1½ inches deep. When the plants are about three inches high begin thinning out and continue at intervals until they stand 8 inches apart in the rows. By thoroughly firming the soil over the seeds after planting and frequently cultivating, more uniform germination and a more even maturing crop will result.

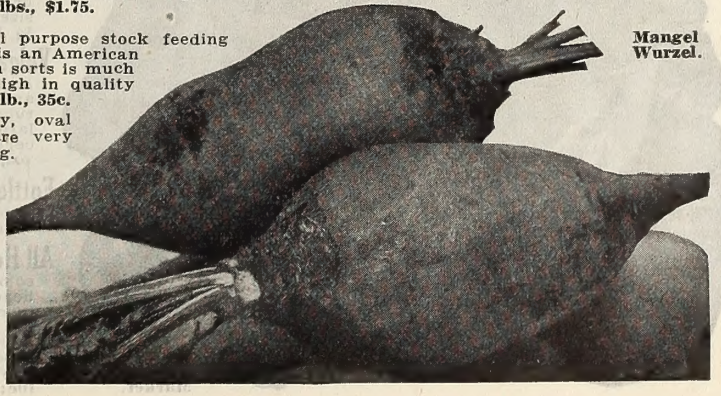
Mammoth Long Red Attains enormous size, producing thirty to fifty tons per acre. The roots are straight, well formed and much thicker than other sorts. Grows well above the ground and is therefore easily gathered. The flesh is white tinged with rose. Highest feeding qualities. **¼ lb., 20c; lb., 40c; 5 lbs., $1.75.**

Lane's Improved Sugar The best general purpose stock feeding beet known. It is an American variety and in comparison with the French sorts is much longer and finer grained. White flesh, high in quality and a good keeper. **Pkt., 5c; ¼ lb., 15c; lb., 35c.**

Danish Improved Very large and heavy, oval shaped roots, which are very sweet and most desirable for stock feeding. **¼ lb., 15c; lb., 40c.**

Golden Giant Intermediate A fairly long, reddish-yellow, oval shaped root, growing half above the ground, very heavy and of good quality. **¼ lb., 15c; lb., 40c; 5 lbs., $1.75.**

Golden Tankard The best Yellow Mangel in cultivation. It contains a larger percentage of sugar than the red sorts. Very desirable for feeding purposes and easily harvested. **¼ lb., 15c; lb., 35c.**



Mangel Wurzel.

Field of Manns' Early Jersey Wakefield Cabbage.

Cabbage

1 oz. for 2,000 plants; ¼ lb. per acre.

CULTURE: The best results are obtained from a well-drained, deep rich loam. The very early varieties should be sown about Sept. 15th and in 4 or 5 weeks transplanted to coldframes, from which they are transplanted to open ground from March 15 to April 15. If this is not done the seed should be sown in hotbeds in February; making plantings later of course according to variety and time crop is wanted. The earliest sorts should be set out in rows 2 feet apart and 18 inches apart in the rows.

If it is not especially desired to have very early cabbage the seed may be sown in open ground and transplanted after 4 weeks. For second early crops sow in April and transplant in May; these will mature in July and August. The late varieties should be planted in May and transplanted in July to rows 3 ft. apart and 2 feet apart in the rows; these will mature from September to November.

Cabbages should be hoed every week and the ground thoroughly stirred as they advance in growth, drawing a little earth to the plants each time until they begin to head, when they should be thoroughly cultivated and left to mature.

First Early Sorts

Early Jersey Wakefield The earliest and surest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness, not only to resist cold, but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and there are few as good. Plant compact and erect or very slightly spreading, with few outer leaves, which are smooth, thick, nearly oval and light green. Stem short. Heads of medium size, very solid, uniformly pointed and of excellent quality. **Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.**

Copenhagen Market.

Charleston or Large Wakefield Produces larger and less pointed heads than Jersey and a week or two later in maturity. The heads are very solid and the leaves are large, smooth, thick. It is exceedingly hardy and has become very popular with growers and shippers because of its earliness and size. An excellent succession to Jersey Wakefield. **Pkt., 10c; oz., 25c; ¼ lb., 65c; lb., $2.00.**

Copenhagen Market This very fine, large round headed variety is of Danish origin and has proven to be very valuable to the American grower. It is nearly as early as Jersey Wakefield, being the earliest large round head variety in cultivation. The heads average about 10 lbs., and the stems are very short. Close planting is possible because of the fact that there are very few outer leaves, the stems are short and the heavy heads very compact. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Early Winnigstadt Medium early, short stem variety producing the hardest heads of all the early sorts. They are fine grained, cone shaped and more sharply pointed than Jersey. The leaves are dark green in color, smooth, having a peculiar and distinct twist at the point of the head. **Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

New Leader Very early flat heading sort forming small solid heads very early but developing larger heads if allowed to stand. **Oz., 25c; ¼ lb., 75c; lb., $2.50.**

Eureka First Early The earliest short stem, round headed variety, comparing favorably with Copenhagen Market but a little smaller and earlier. The quality is excellent and it is a reliable header and a sure cropper, being very powerful in its disease resisting qualities. Popular with market gardeners as it matures at the same time as the early pointed varieties. **Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., $2.00.**

Second Early Sorts

New Glory This second early variety is very sure heading and of excellent quality. The plant is of vigorous growth, with large and rather spreading outer leaves which are noticeably curved and frilled. The head is globular or very nearly round, very solid and of large size for so early a variety. **Pkt., 10c; oz., 25c; ¼ lb, 75c; lb., $2.50.**

Volga One of the earliest main crop cabbages of superior quality. Very desirable where a large, uniformly round head with short stem and compact growth is wanted. This sort matures very early for a variety furnishing such large heads of excellent shape. It is also exceptionally hardy and a good keeper **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Fottler's Short Stem Rapid Grower Heads are large and solid and of excellent quality, few outer leaves, short stem. **Oz., 25c; ¼ lb., 70c; lb., $2.50.**

All Head Early or New Early Remarkably solid and uniform in color as well as in shape and size, its sure heading qualities and tenderness make it a favorite for the home garden. By reason of its compact growth, it is possible to produce 1,000 more heads per acre than many other good sized varieties. For winter use sow in July. Splendid sort for kraut making. **Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.**

Cabbage
---Continued

Early Flat Dutch Excellent large early flat sort, producing solid heads that mature with Early Summer. The stem is short and it has comparatively few outer leaves. Compares favorably with Large Late Flat Dutch but much earlier and smaller. **Pkt., 10c; oz., 20c; ¼ lb., 65c; lb., $2.00.**

American Drumhead Savoy This is the finest of the Savoy class and very distinct from all other sorts. It forms the hardest heads and is the best for either early or late crops. The leaves are heavily crimped or savoyed and grow closely about the large, solid, dark green heads. The flavor is far superior to that of other cabbages, and for this reason is very much in demand. It is an excellent keeper and very hardy. Entire "pits" of it will keep in perfect condition until May. **Oz., 25c; ¼ lb., 75c; lb., $2.25.**

Early Summer Heads medium in size, round, somewhat flattened, compact and solid; outer leaves spreading and light green in color. Ten days later than Jersey Wakefield, and one of the best large second early sorts. **Oz., 25c; ¼ lb., 65c; lb., $2.25.**

Henderson's Succession The best very large midseason cabbage, about a week later than Early Summer but much larger and can be planted closer because of its compact growth. It is sure to head, very uniform in habit and the quality is excellent. **Oz., 25c; ¼ lb., 70c; lb., $2.25.**

All Seasons A reliable variety to use when only one planting of cabbage is made. It is equally as good for fall and winter as for summer use. Nearly as early as Early Summer and much larger heads of the best quality are produced. **Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.**

Sure Head Extremely popular with the private gardener because of the sure heading qualities and the remarkably large, uniform, heavy heads. A good keeper and one of the best for late crops. **Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., $2.25.**

Lupton A grand Cabbage, combining the qualities of the second early and late sorts. It is vigorous, perfect in type and has the fine qualities of the early maturing varieties. The stem is short and the heads are large, uniform and dark green in color. It is sure to head and is an excellent keeper. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Danish Ball Head or Hollander A very hardy, sure heading variety which has proven to be the best keeper and the most desirable for distant markets. The plants are vigorous, compact and have a stem of medium length. Exceedingly hardy and standing dry weather very well. Extremely solid, large and heavy heads are produced. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

New Danish Round Head Compared with Danish Ball Head, has less outer foliage. The heads are larger in size and are set on shorter stalks, maturing two weeks earlier. They are extremely hard and solid, of sweet flavor and tender texture. It is very blight resisting and vigorous in growth during the hot summer and good keeper. **Oz., 25c; ¼ lb., 75c; lb., $2.50.**

Extra Large Late Flat Dutch.

J. Manns & Co., Baltimore County, Md.
Baltimore, Md. Nov. 28, 1922.

Gentlemen:—I am pleased to tell you that your strain of Savoy Cabbage is the best I have ever grown. My success with this crop has been far beyond my expectations and I have had two heads of average size photographed so that you may have some idea of the size. (Notice the bushel size market box almost hidden).

You should have seen the field before we started cutting. It was a beautiful sight; rows and rows of uniformly large, heavy, dark green heads developed to a degree of perfection unsurpassed.

I have always found your seeds to be absolutely dependable and moderately priced, resulting in profit and success.

Yours truly,
JOHN L. SCHAFER.

Late or Winter Sorts

Premium Flat Dutch A very good variety for fall use or for making kraut. The heads are very solid, tender and of superior quality. They mature earlier than other late varieties but do not keep as well over the winter. **Pkt., 10c; ¼ lb., 60c; lb., $2.00.**

Extra Large Late Flat Dutch The best and most profitable late variety, possessing all the qualities a winter variety should have. It is hardy, vigorous, and high in quality. The heads are "as solid as a stone" and for that reason keep well for winter use. The leaves are formed about the head in such a way as to resemble a saucer, in which the light rains and dews collect, the moisture then being absorbed through the stem by the roots. This gives an added advantage when a very dry season is experienced. A favorite with the private gardener as well as the trucker. **Oz., 20c; ¼ lb., 60c; lb., $2.00.**

Autumn King or World Beater One of the finest strains of late Cabbage. It produces regular, even heads of enormous size; a great cropper on account of few outside leaves. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Mammoth Rock Red This is the largest and surest heading red Cabbage yet introduced, and much better than the stocks offered as Red Drumhead. The plant is large, with numerous spreading leaves. The head is large, round, very solid of very attractive deep red color. Nearly every plant will form an extra fine head. **Pkt., 10c; oz., 50c; ¼ lb., $1.75.**

Early Snowball Cauliflower.

Chinese Cabbage

Chinese or Celery Cabbage belongs to the cabbage family but more closely resembles lettuce. It is a delicious vegetable served either as a salad like lettuce or a cold-slaw. When boiled it is even more palatable than cabbage and resembles Brussels Sprouts in flavor. All who like to try new things in the vegetable kingdom will find Chinese Cabbage a real pleasure. For best results plant the seed late in July or very early in August as spring plantings in this section are liable to bolt to seed. Plant the seed in the permanent bed and thin out to stand 12 to 15 inches apart. Transplanting is not practical, cultivate same as cabbage. Thrives well in any good soil and matures full sized heads in 75 to 90 days.

Pe-Tsai Peking.

New Pe-Tsai "Peking" This variety is the finest Chinese cabbage in existence, and is recommended to either the market gardener or private planter, as it is high in quality, of handsome appearance and an excellent keeper. The heads are large, compact and the crisp, tender interior blanches to a creamy white. It will stand long before bolting to seed and is not injured by light frosts. **Pkt., 10c; oz., 35c; ¼ lb., $1.00.**

Cauliflower

1 ounce to 2,000 plants.

This delicious and very profitable vegetable is not as extensively grown as it should be because many gardeners have an erroneous opinion that cauliflower is difficult to grow. Anyone will be reasonably sure of success if the following suggestions are followed:

For an early crop sow the seed either indoors or in a hot-bed in January or February, transplanting them to 2 or 3 inches apart thus allowing the plants to put forth a vigorous growth before being set in the permanent rows.

As soon as danger of freezing is over, set the plants in the open ground in rows 2½ to 3 feet apart and 18 inches apart in the row. The soil for Cauliflower should be like that for cabbage, but it is better if an additional quantity of manure is used so that the ground is very rich. Cultivate often and thoroughly. For fall crop sow the seeds during April or May. It is well to plan so that the early crop heads before very hot weather and the late crop matures after hot weather.

Plenty of moisture is needed at all stages of growth but is especially necessary when the plants are heading. At this time the leaves should be loosely tied over the heads as a protection from the sun. Cauliflower is highly esteemed for its mild, delicate flavor and the extreme tenderness of the solid white heads and always commands a favorable price in the markets.

Early Snowball The best early variety in cultivation. If planted March 1st, large heads will be produced early in June, and scarcely a single plant will fail to form a head. Its compact habit renders it a very profitable variety to force under glass, and it does well for late planting also. Our stock cannot be excelled in quality. **Pkt., 25c; oz., $1.50; lb., $20.00.**

Extra Early Dwarf Erfurt (Extra Selected.) This is the choicest selected strain of the popular Erfurt type, and is remarkable for its extreme reliability in heading. Nearly as early as Early Snowball. **Pkt., 20c; oz., $1.25.**

Dry Weather Cauliflower Especially adapted for growing in dry locations where nearly all other varieties fail, and for heads of good size. Dry Weather, which is also known as Gilt Edge and Danish Giant, is about one week later than our Early Snowball, is much larger and with much more foliage; hence it is not so suitable for forcing. The heads are very large, white, firm and compact, and being well protected by the dense foliage, are easily blanched and remain fit for use for a long time. **Pkt., 25c; oz., $1.50; lb., $20.00.**

Celeriac

Celeriac or Turnip Rooted Celery is grown for its edible roots which keep well for winter use and are excellent for flavoring. Sow seed and cultivate same as celery, with the exception that it is not necessary to blanch the plants. When the roots attain a diameter of two inches they are fit for use. To keep these through the winter, pack in damp earth or sand and store them in a cellar or leave them out of doors, covering with earth and straw for protection.

Large Smooth Prague An improved form of turnip rooted celery. One of the largest, very smooth and almost round with very few side roots. Plants are vigorous, with large dark green foliage. French grown stock. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Large Smooth Prague Celeriac.

Cress

Sprinkle seed freely along shallow drills 1 foot apart at intervals through spring and summer, as desired.

Curled or Pepper Grass This small salad is much used with lettuce, to the flavor of which its warm, pungent taste makes a most agreeable addition. **Pkt., 5c; oz., 40c.**

True Water This is quite distinct from the last, and only thrives when its roots and stems are submerged in water. **Pkt., 10c; oz., 50c.**

Cauliflower Plants: We are especially equipped to supply strong healthy plants, fresh daily. Per doz. 25c; per 100 $1.60; per 1000 $12.00.

Carrots

1 ounce to 150 feet of drill; 4 lbs. per acre.

Our stock is grown from choice selected and transplanted roots only, and are of the truest type and richest color money can procure.

CULTURE. The culture of carrots is of the simplest. Any good soil will grow this vegetable, but the most perfect roots however, are developed in rich, friable soil, preferably sandy loam. The flavor and tenderness of the table varieties is secured by having a quick growth, which usually means good growing weather and proper cultivation. Sow as early as the ground can be worked or for late crop until the latter part of July, in drills 15 to 18 inches apart, finally thinning the plants to 3 to 4 inches in the drills. The seed is slow to germinate and if sown early or on moist soil, half an inch is deep enough. When sown during the hot summer months it is well to protect the seed bed with a thin layer of chips or straw as excessive heat will kill the vitality of the seeds before they germinate. After the seed has sprouted remove the covering, selecting the late afternoon for this work. Carrots are usually quite free from pests and diseases. The usual danger from ground worms and slugs is of course always prevalent, but once up they are easier to grow than most vegetables. They are ready for table use in about two months.

Early Horn The most popular forcing variety, producing top-shaped reddish-orange roots about three inches long. Very early with small tops. Second in size, fine grained and of good quality when pulled young. Popular for early marketing but small. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Oxheart or Guerande. One of the most popular sorts for table and stock. When full grown, 5½ to 6 inches long, but should be pulled young for table use. Very stout and thick, ending in an abrupt small tap root. If the soil is too wet this variety will sometimes split badly, but this can be prevented by properly controlling the drainage. Very easily harvested and can be grown in very shallow soils where other sorts would not thrive. Quality excellent. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Chantenay or Model Carrot A most excellent, medium early, half-long variety. Its quality, shape and size make it the best and most profitable sort for either the home garden or for marketing. The roots grow to a length of about 5 inches, very uniform, stump-rooted but tapering slightly. They are smooth, deep orange-red in color and the flesh is very crisp and tender. Although a medium early sort the roots are suitable for use nearly as early as any, and will also prove very satisfactory if grown for winter use. Very easily harvested and conveniently bunched. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

New Sunrise This new variety, originated and developed by a Danish specialist, is sure to be recognized as the leading carrot as soon as known. Our trials fully confirm all claims set forth by the originator. It is of the most perfect form, pointed-rooted, with a broad, high shoulder; about 7 inches in length. It is the brightest scarlet as to skin, the smoothest grain or texture as to flesh of all the half-long carrots. Be sure and order at least a trial packet. **Pkt., 5c; oz., 15c; ¼ lb., 45c; lb., $1.60.**

Danvers Half Long.

Chantenay.

Danvers Half Long This is an exceptionally fine Carrot for private and market garden use. It is slightly longer than Chantenay and our strain produces uniformly smooth and evenly sized roots of handsome appearance. They are orange-red in color and the flesh is sweet, crisp and tender, being fine grained and of highest quality for table use. The tops are a little larger than those of Chantenay and the crown is flat, the roots taper very slightly from the crown but form a blunt point at the tap root. For main planting this sort has no superior, and when sown during June may be depended upon to produce the very best crop of roots to store for winter. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

St. Vallerie or New Intermediate A long pointed variety, very smooth and regular in growth, resembling Long Orange, except in size, being thicker at the shoulder and not so long. They grow to a length of 9 to 10 inches and are about 2 to 2½ in. thick at the shoulder tapering in a straight line to the tip. The roots grow entirely under ground and are bright orange scarlet in color. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Improved Long Orange A standard late variety, beautiful and uniform in shape, deep orange in color. The roots grow to a length of 12 inches and are of good quality for table use as well as for stock. They require a deep soil and if full size roots are wanted they should stand at least 8 inches apart in 18-in. rows. The tops are not large when compared with the size of the root and a very heavy crop can be produced. The keeping qualities of this splendid variety are unexcelled and will be found to be very beneficial when fed to stock. Carrots are highly nutritious and their high feed value combined with the low cost of production make them a very profitable crop for dairymen. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Oxheart.

French Golden Self-Blanching Celery.

Celery

1 ounce to 1,000 plants.

Celery seed is very slow to germinate and therefore should be started indoors in boxes from February to April or sown out of doors in a finely prepared seed bed during April. See that the seed is not covered too deep and that the bed is kept moist, almost wet until the seeds germinate. When the plants are about two inches high thin out and transplant to a distance of two or three inches apart each way. These must be kept entirely free from weeds and when they are four inches high the tops may be cut off so that the plants will grow more stocky. The plants are usually set out in the permanent bed when five inches high and it is usually best to do this during July or the first of August. In some sections best results are obtained by transplanting in June.

The permanent beds should be thoroughly prepared and well enriched with rotted manure, which should be spaded in deeply, the rows being spaced 3 to 4 feet apart. Cut off some of the root and set the plants 8 to 12 inches apart in the rows, firming the soil tightly, and cultivate them frequently for a period of six weeks. Celery needs plenty of moisture.

When the plants are nearly full grown they should be blanched. This is done by drawing the soil closely about the plants to about two-thirds of their height, being careful not to allow any of the earth to fall between the leaves. Repeat this process every few days until only the tops of the leaves are visible. Do not disturb the plants while they are wet or the soil is damp as this is liable to result in injury from rust.

White Plume A very popular market variety, being very early, easily blanched and of handsome appearance. The leaves are light, bright green and the flesh is a beautiful silvery-white color. not as good a keeper as French Golden Self-Blanching. **Oz., 25c; ¼ lb., 75c; lb., $2.50.**

French Golden Yellow Self-Blanching (Originator's Stock). This is the standard celery for early use, being ready for use as early as any other variety and much superior in a great many respects. Our strain of this very popular sort cannot be excelled in quality or appearance. The plants are of medium size, compact and stocky, with yellowish green foliage. As they mature the inner leaves and stems turn to a beautiful golden yellow, which adds much to their appearance and makes the work of blanching much easier. The stalks are solid, crisp, tender, free from strings and of a fine nutty flavor. A favorite with both large and small growers. **Pkt., 10c; oz., 75c; ¼ lb., $2.50; lb., $9.00.**

Golden Self-Blanching (American Grown Seed). An early sort, of very compact growth, with thick, solid, heavily ribbed stalks which are very easily blanched to a clear waxen yellow. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Silver Self-Blanching Somewhat similar to French Golden Self-Blanching in habit of growth but resembling White Plume in color. High in quality, very brittle and free from strings. **Pkt., 10c; oz., 35c; ¼ lb., 75c; lb., $2.50.**

Easy Bleacher Two weeks later than Golden Self-Blanching. Blanches readily and is a great favorite with Southern growers who usually plant a full crop of this one sort. Vigorous in growth and a splendid keeper. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $3.50.**

Winter Queen Of medium height, an excellent winter keeping sort, producing thick, creamy white stalks which are broad, very solid and crisp. The hearts are large and it blanches well. **Pkt., 5c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

Evans' New Triumph This variety has a very strong and vigorous plant, with very large but crisp, brittle, tender and fine-flavored stalks. It is late and requires the whole season to develop, but will keep longer than other sorts. We recommend it as worthy of the first place as a late Celery. **Pkt., 5c; oz., 25c; ¼ lb., 50c; lb., $1.75.**

Kalamazoo A large sized, vigorous growing variety; stalks white, round and distinctly ribbed; very crisp, perfectly solid and of superior flavor; matures a little earlier than Giant Pascal. **Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., $1.50.**

Sweet Nut Very high flavored; perfectly stringless. **Oz., 25c; ¼ lb., 75c; lb., $2.50.**

Boston Market For many years the most popular sort. It is a vigorous grower, and very branching and an excellent keeper. **Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., $1.75.**

Golden Heart A distinct variety of sturdy dwarf habit. It is solid, and an excellent keeper, and of fine nutty flavor. When blanched, the heart, which is large and full, is of a light yellow, making it exceedingly showy and desirable for either market or private use. **Pkt., 5c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

Columbia An exceptionally fine, early variety, which for size and shape is unsurpassed. The plant is of medium height, but very stocky, foliage is a light shade of green with yellow tinge, and the stalks are thick, almost round, and resemble Giant Pascal in shape, but are of a rich, yellow color, similar to the well-known Golden Self-Blanching, which it resembles very much when trimmed and bunched. It matures early, and its exceedingly fine flavor and crispness will please even the most critical. **Pkt., 5c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

Giant Pascal A superior keeping sort. The stalks are very large, thick, solid, crisp and of rich nutty flavor; it blanches very easily and quickly, and retains its freshness a long time. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

CELERY PLANTS

All Leading Varieties

Ready During July and August

See Page 33

USE A
FELINS VEGETABLE TYING MACHINE
Described on Page 52.

Corn Salad

1 ounce will sow 20 square feet; 6 lbs. to the acre.

Ackersalad A vegetable used as a salad. It is sown in the opening of spring in rows 1 ft. apart, and is fit to use in 6 or 8 weeks from sowing. If wanted in early spring, sow in September; cover with straw as soon as cold weather sets in. Can be grown in cold frames, covered with straw mats or shutters, and used any time during the winter. **Large Seeded German, ¼ lb., 25c; lb., 75c.**

Pop Corn

White Rice The most popular variety. The pearly white grains are pointed and set closely on a small cob. **10c per lb.**

Queen's Golden Yellow It pops perfectly white, and produces very large flakes. **10c per lb.**

Corn - Table Varieties

FIELD CORN—Page 46.

1 quart to 200 hills; 3 quarts per acre.

Sugar and Sweet Corn should not be planted until May, or when the ground is warm. For succession, plant about every two weeks until the last of July. All varieties may be either sown one inch deep in rows three to four feet apart, the seeds being placed about 8 inches apart in the rows, or they may be planted in hills at distances of three or four feet apart each way, allowing not more than 3 plants stand to a hill. The size of the variety and the richness of the soil should determine the distance of planting. Cultivate frequently and thoroughly but shallow until the tassels appear.

Extra Early

First Early Neck This variety can be planted earlier than any other sort; ear short, grain white. It is not a Sugar Corn, but, on account of its being largely sold for table use, we class it among the Sugar Corns. **Ear, 5c; doz., 50c; qt., 25c; pk., $1.15; bu., $4.00.**

Adams' Extra Early Similar to the First Early Neck, larger, but a fraction later; a favorite for early markets. **Ear, 5c; doz., 50c; qt., 25c; pk., $1.15; bu., $4.00.**

Adams' Early A splendid early variety and safe cropper. **Doz., 50c; qt., 25c; pk., $1.15; bu., $4.00.**

Improved Early Adams A distinct improvement over the Old Early Adams, fully as hardy; ears measure from 10 to 14 inches in length, with 12 or more rows to the ear. Grains are narrow and deep, of excellent table quality. Any portion of the crop not needed for table will make fine ears for stock feeding. **Qt., 25c; pk., $1.15; bu., $4.00.**

Delicious Cream In maturity is a little later than Early Adams, but it makes ears much larger and longer. It is a strong grower. It will produce a larger percentage of marketable ears than any other variety. It has from 2 to 3 ears to the stalk, of a most desirable size, either for market or table use. The ears contain from 8 to 10 rows of bright, attractive grains well filled out to the tip. Makes beautiful creamy white roasting ears, while its flavor is sweet, tender and delicious. **Qt., 30c; pk., $1.50; bu., $5.50.**

Peep o' Day Is of recent introduction, and is credited by many as being exceptionally early, comparing favorably with the Premo of unparalleled sweetness. The stalks bear from 2 to 5 ears each, and are very dwarf, which admits of close planting. **Qt., 25c; pk., $1.50; bu., $5.50.**

Premo An Extra-early 65-day Sweet Corn; medium sized ear of good quality. **Qt., 25c; pk., $1.50; bu., $5.50.**

Morse's Golden Cream It is of California origin, resulting from a cross between Country Gentleman and Golden Bantam. The kernels are long and pointed, which are irregularly formed on a very small slender cob. The habit of growth is rather dwarf, and the brownish red stalks bear 2 to 4 ears of a rich creamy color of unequaled flavor and quality, maturing with the very earliest. **Qt., 30c; pk., $1.65; bu., $6.00.**

Golden Bantam A very early variety. The ears are but medium size, usually 8 rows, thickly set with delicious yellow kernels. **Qt., 30c; pk., $1.50; bu., $5.50.**

De Lue's Golden Giant Because of the extreme tenderness, combined with the exquisite rich sugary flavor, Golden Giant has become the standard of perfection for sugar corn, and is **3 to 5 days earlier** and **2 or 3 times as large** as its own parent, the Golden Bantam, of **better quality**, deeper color and **more productive.** As the seed is scarce, we quote in small quantities only. **½ pt., 20c; pt., 35c; qt., 60c.**

Red Cob or Ninety-Day Corn A distinct and well-known sort of white Corn; matures in about 90 days; produces large, handsome ears. It adapts itself to any kind of soil, and can be used green as a table corn or when dry for stock feeding. It may be planted for early market at intervals as soon as the frost is out of the ground until middle of July. Used by many truckers for late planting, as it produces a sure crop. **Qt., 25c; pk., $1.25; bu., $4.00.**

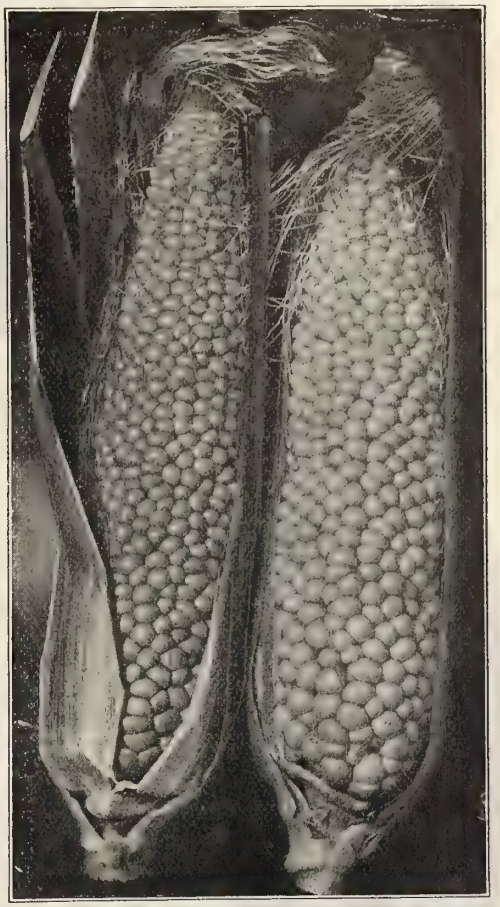
Medium Early

Howling Mob Stalks are of strong, vigorous growth, 5 ft. in height; produces 2 large ears of sweetest quality. **Qt., 25c; pk., $1.25; bu., $4.50.**

Sheffield This cross-bred early variety combines the robust growth and extreme hardiness of the **Extra Early Adams** with the finer sugary quality of the **Cory.** Ears average 7 inches long, and are well filled with grains of medium size, arranged in 10 or 12 regular rows. It is as hardy as the **Adams,** and of **much sweeter quality. Qt., 25c; pk., $1.25; bu., $4.00.**

Kendel's Early Giant Remarkably large in ear for a second early sort and very popular. The stalks are about 5½ feet high. The ears are about 8 to 9 inches long, 12-rowed. The grain is rather broad and shallow, and the quality very good. **Qt., 25c; pk., $1.25; bu., $4.00.**

Black Mexican Although the ripe grains are bluish-black, they are remarkably white when in roasting ear stage. In tenderness and fine quality none can surpass it. We recommend it highly to follow the first early varieties. **Pkt., 5c; qt., 30c; pk., $1.50.**



Country Gentleman Sweet Corn.

Stabler's Early We recommend this as the finest small kerneled second early sweet corn. Medium sized, prolific; white, meaty kernels. The kind of sweet corn which one most likes. An excellent table sort. **Qt., 25c; pk., $1.25; bu., $4.00.**

Trucker's Favorite Sugar Corn Is a very desirable second early variety, of sweet and delicious flavor, producing a large ear well filled to the end. **Qt., 25c; pk., $1.25; bu., $4.50.**

Country Gentleman Very deep grains, small cob and exceedingly rich flavor. Often produces 3 to 4 ears to the stalk. The grains are "staggered" on the cob, leaving no signs of rows. **Qt., 25c; pk., $1.25; bu., $4.50.**

Dobbin's Early Evergreen The ears of this new corn grow 8 inches long; are mostly 14 to 16 rows. It ripens 10 to 12 days in advance of Stowell's Evergreen, and is equally as good for all purposes. Kernels sweet and tender; cob small, with irregular rows. **Qt., 25c; pk., $1.25; bu., $4.50.**

Early Mammoth Resembles the late Mammoth; ears are fully as long, but more tapering; ripens 2 weeks earlier. **Qt., 25c; pk., $1.25; bu., $4.50.**

Main Crop and Late Varieties

White Evergreen A pure white strain of the popular Stowell's Evergreen. The ears are very large and well filled from butt to tip with long, slender, pure white grains of the most delicious sweetness. **Qt., 25c; pk., $1.25; bu., $4.00.**

Improved Narrow Grain Evergreen In maturity and habit of growth resembles the well-known Stowell's Evergreen. The cob is small in comparison to the size of the ear, and the kernels are very narrow, sweet and remarkably free from starch, producing 24 straight, uniform rows on the cob. **Qt., 25c; pk., $1.25; bu., $4.25.**

Stowell's Evergreen Grown more extensively than any other; a favorite with canners and market gardeners for late use. The ears are of large size, kernels very deep, tender and sugary; very productive and remains for a long time in fit condition for table use. **Qt., 25c; pk., $1.25; bu., $4.00.**

Late Mammoth Produces larger ears than any other Sweet Corn; very weighty, profitable for growers selling by ton. **Qt., 30c; pk., $1.25; bu., $4.00.**

Cucumbers

1 ounce to 100 hills.

CULTURE. Plant as soon as the weather becomes settled in hills 4 feet apart each way, with 8 or 10 seeds in each hill, cover half an inch deep, smoothing the hill off with the hoe. Keep the soil well stirred, and when the plants are out of danger of insects, leave 3 or 4 plants to the hill. For pickles, plant from the first of June to the first of August. The fruit should be gathered when large enough, whether required for use or not, as, if left to ripen on the vines, it destroys their productive uses.

Klondike Cucumber.

Arlington White Spine The cucumbers are very regular in outline, uniform in size, averaging 7 to 8 inches in length, **straight,** and of a **rich dark green color.** Flesh white, crisp and solid, with comparatively few seeds. Vines of vigorous growth and very productive. **Pkt., 5c; ¼ lb., 25c; lb., 90c.**

Klondike Of recent introduction, has already become a favorite with market gardeners and shippers all over the country. The handsome dark green cucumbers average 7 inches long and 2 inches in diameter, and demand the highest price when offered on any market. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Early Green Cluster A short, prickly variety, bearing clusters; prolific; fine for bottle pickles. **Pkt., 5c; ¼ lb., 25c; lb., 90c.**

Fordhook Famous This new extra long White Spine cucumber produces perfectly smooth, very dark green, handsome straight fruit, measuring 12 to 17 inches long. They are always solid, flesh being a greenish white, firm, crisp and of most delicious flavor. It is a great cropper, and fruit is full of flesh, with but few seeds. **Pkt., 5c; ¼ lb., 25c; lb., 90c.**

Cumberland This new pickling variety was produced by a cross between White Spine and Paris Pickling. It combines the slim, straight shapes, fine spines and crisp flesh of the Paris Pickling with the vigor and productiveness of the White Spine. The fruit is covered with fine spines except at the stem end. It makes a very fine quality of pickles, being of best shape, and good deep green and crisp. The vines are healthy and productive. **Pkt., 5c; ¼ lb., 30c; lb., 85c.**

Early Cyclone It is not only the earliest cucumber in cultivation, being fully two weeks ahead of White Spine, but it is of the desirable White Spine type, being shorter, thicker and holding better its deep green color than any other early Cucumber in cultivation It is very prolific, and grows its fruits in bunches of threes and fours, of uniform size and shape. A single hill will sometimes produce from 10 to 12 shapely Cucumbers. **Pkt., 5c; ¼ lb., 25c; lb., 90c.**

Boston Pickling or Green Prolific Its characteristics are its uniform growth, seldom yielding Cucumbers too large for pickling, and its immense productiveness. **Pkt., 5c; ¼ lb., 30c; lb., 90c.**

Long Green Our carefully-selected strain, under favorable conditions, produces fruit averaging from 12 to 16 inches in length. Skin is a deep rich green, flesh solid, crisp and of excellent quality. **Pkt., 5c; ¼ lb., 40c; lb., $1.25.**

Japanese Climbing Vines are extra strong, vigorous; being a climbing sort, can be grown on trellises, etc.; valuable in small gardens. Very prolific, from 40 to 50 having been counted on single plants. Fruit long, round, of fine flavor. **Pkt., 5c; ¼ lb., 30c; lb., $1.00.**

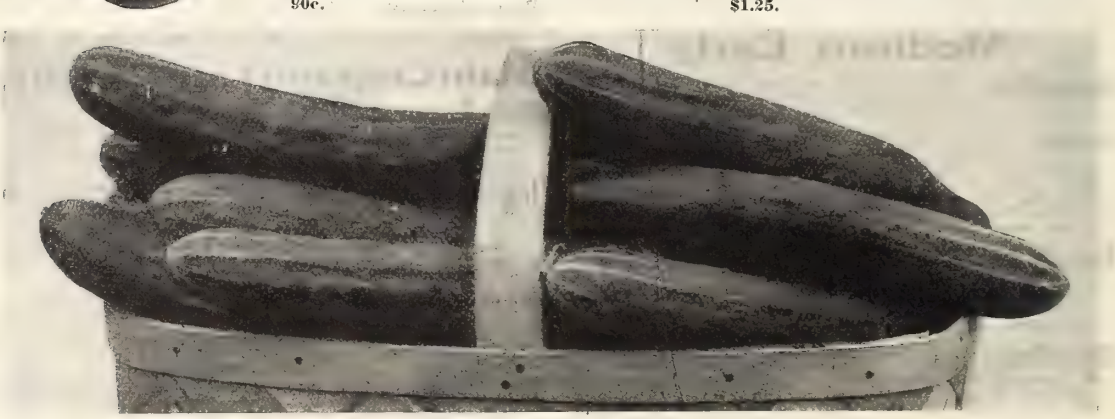
Evergreen Extra Long White Spine

This is a strain of White Spine Cucumber with longer fruit than the old type. The cucumbers grow 10 inches long, and are straight and handsome and of fine quality, and retain their green color for a long time. Matures a little later than the early strain, but the fruit is larger and handsomer. One of the best varieties. **Oz., 10c; ¼ lb., 25c; lb., 90c.**

Davis' Perfect As now selected, this popular new variety is well worthy of praise. The long, even fruits are of fine form, with an intensely dark rich green skin. With very few seeds, the solid white flesh is of superb quality for slicing. So handsome and regular are the fruits that they bring an extra price on market, often being taken for "hot-house grown." The vines are of strong growth and quite prolific. **Pkt., 5c; ¼ lb., 30c; lb., 90c.**

Jersey Pickle In size between the Half Long and Long Green, and is used extensively by pickle growers, being productive and of deep green color. **Pkt., 5c; ¼ lb., 20c; lb., 65c.**

Gherkins or Burr Very small, quite distinct from all others. It is grown exclusively for pickling, and should be picked when young and tender. **Pkt., 5c and 10c; ¼ lb., 35c; lb., $1.25.**



Davis Perfect Cucumbers.

Egg Plant

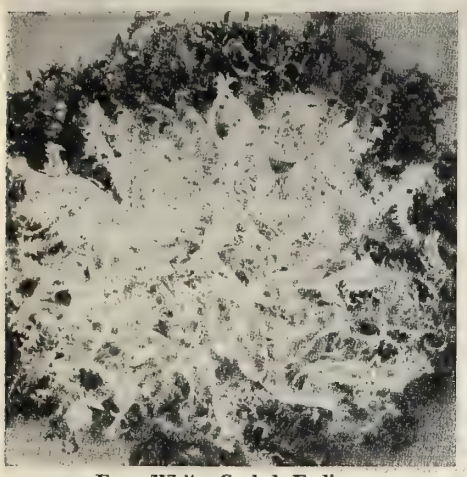
1 ounce will produce 1,000 plants.

Sow in March in hotbeds, and transplant when 2 inches high into a second hotbed, or let them remain and thin out to 4 inches apart. When the weather becomes settled, transplant into the open ground 3 feet apart each way. Good culture is quite as important as good seed. Work the ground deep, make it rich with well-rotted manure and hoe often.

Mammoth Smooth Stem This superior strain is a decided improvement on the New York Large Purple in quality, size and beauty. The plants are large and vigorous, leaves of a light green shade, stem smooth, fruit large, oval, early and of a fine deep purple. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.50.**

Black Beauty The most beautiful and earliest of all large Egg Plants. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.50.**

New York Improved Purple Oval shaped, thornless, dark purple color, and rich flavor. **Pkt., 10c; oz., 40c; ¼ lb., $1.15; lb., $4.00.**



Ever White Curled Endive.

Florida High Bush Very vigorous and productive; of upright growth, holding the fruit well off the ground; color light purple; of oblong shape. **Pkt., 10c; oz., 30c; ¼ lb., $1.00.**

Black Beauty.

Endive

1 ounce to 100 feet of drill; 3 lbs. to the acre.

Endive may be sown at any time. For main crop sow in June or July in rows 16 inches apart. When nearly full grown it is blanched, to destroy bitterness, in the following form: When dry gather up the leaves and tie them by their tips in a conical shape, or lay clean boards right over the plants, which thereby excludes the light and air from the inner leaves, which then blanch to a beautiful yellowish white. After 14 days or 3 weeks they will be ready for use. Tie up at different times, as it only keeps a short time after blanching. It makes a splendid salad, and is very useful, as it comes in after lettuce is gone.

Ever White Curled By far the most beautiful variety. Plants moderately dense; leaves coarser than those of the Green Curled, but the mid-rib is yellow and the leaves frequently almost white, so that the plants are very attractive and always bring the highest prices on the market. **Pkt., 5c; oz., 20c; ¼ lb., 30c; lb., $1.00.**

Green Curled This is the hardiest variety, and very desirable for the home and market garden. The deep green leaves are beautifully cut and curled, easily blanched and become very crisp, tender and fine flavored. **Pkt., 5c; oz., 20c; ¼ lb., 30c; lb., $1.00.**

Kale

Broadcast, 2 to 3 lbs. per acre. 1 oz. to 200 feet of drill.

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September and protect during winter. It must also be sown in April or May for later use.

New Floradale Savoy Of medium height, with long deep curled green leaves, and is one of the handsomest Kales ever developed. Its graceful leaves are unmarked by frost. It is late seeding, and will be found in good condition after all other varieties have lost their usefulness. **Pkt., 5c; ¼ lb., 40c; lb., $1.00.**

American Long Standing An improvement on the well-known German Extra Curled Kale; beautifully curled, of strong, vigorous habit, perfectly hardy and slow shooting to seed. **Pkt., 5c; ¼ lb., 20c; lb., 50c; 10 lbs., $4.50.**

Kale.

Kohlrabi

1 oz. will produce 1,500 plants.

This forms a bulb above the ground and its flavor is somewhat similar to Cabbage. Sow in April in rows 18 inches apart, thinning out to 8 inches between the plants.

Early White Vienna Excellent for forcing and of fine quality. The bulbs grow to the size of an apple when ready for use, and are a pale whitish green. They are of delicate cabbage-like flavor. **Pkt., 10c; oz., 15c; ¼ lb., 30c; lb., $1.00.**

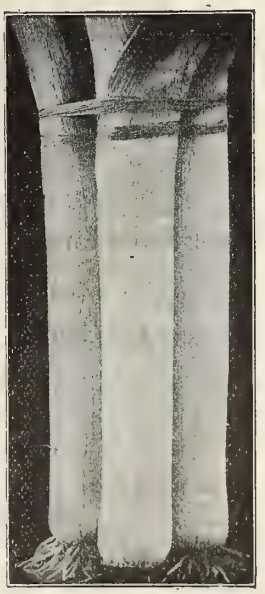
Leek

1 oz. to 50 yards of drill.

Sow early in the spring in drills 1 inch deep and 12 inches apart; when about 6 inches high transplant into deep, rich soil, 5 inches apart; use a dibble and plant deeply, close to their leaves,

Large London Flag A favorite market variety, of enormous size, leaves large and broad; flavor mild and pleasant. **Pkt., 5c; oz., 20c; ¼ lb., 50c; lb., $1.50.**

Monstrous Carentan or Scotch Champion Of extra large size; the leaves are fan-shaped, of a dark green color; the edible stem is 6 to 8 inches long and 3 inches in diameter. **Pkt., 5c; ¼ lb., 50c; lb., $1.75.**



Monstrous Carentan Leek.

Lettuce

1 ounce to 2,500 plants; 3 lbs. per acre.

Lettuce to be at its best should be grown rapidly, hence the soil should be made as rich and friable as possible by liberal manuring and thorough preparation. For early crop sow in a seed-bed in September or October and protect through the winter with cold frames, which should be removed as soon as danger of severe freezing is past. Lettuce in the open ground will stand some freezing but is killed by prolonged frost or frequent freezing and thawing. The seed may also be sown in hotbeds in March, and the plants, if well hardened by having been often exposed to the air, may usually be set in the open ground in April, maturing a crop much earlier than complete open ground cultivation would produce. If, however, it is not convenient to get the plants started either in the fall or early spring in hotbeds, the seed may be sown in open ground from the middle of April until July, selecting varieties suitable to the season.

The plants should be thinned or transplanted so as to stand 8 to 10 inches apart in the rows, and the rows should be about 18 inches apart. Good seed, rich soil, plenty of moisture and sunshine, and frequent cultivation will result in a successful and very profitable crop.

May King Lettuce.

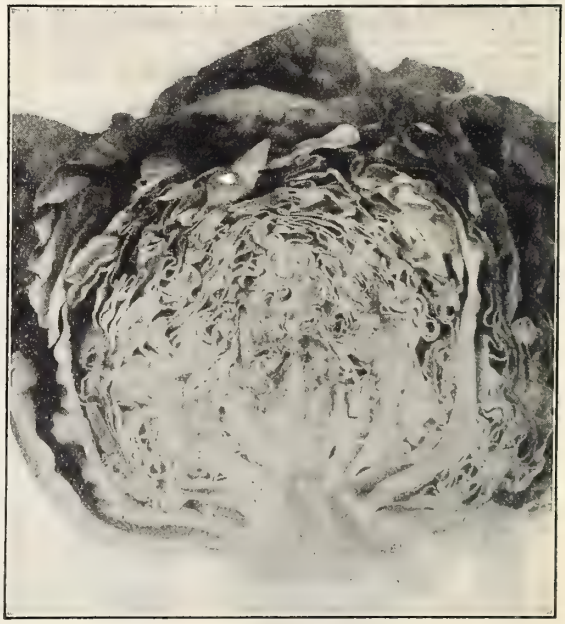
Grand Rapids Lettuce.

May King A handsome, extremely early, compact cabbage or heading variety, forming very firm heads of medium size and excellent quality. Color light yellowish-green, tinged with reddish-brown when mature. Inner leaves blanch rich golden-yellow, very tender and buttery. Plant very compact for so large a head. Exceptionally early outdoors, attaining a size suitable for use before other sorts, and also very satisfactory for forcing. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., $1.00.**

Grand Rapids As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, hardy, little liable to rot and remaining in condition several days after being fit to cut. The plant is upright and forms a loose cluster of large, thin, bright green leaves, savoyed, finely crimped at edges. The leaves do not wilt quickly after cutting, so that the variety will stand shipping long distances better than most sorts. Very attractive and desirable for garnishing. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., $1.00.**

Earliest "Wayahead" It shows a remarkable combination of earliness, firm heading character, handsome appearance and fine quality. Both in cold frames early in the spring and in the open ground —in spring, summer and early fall months—it has proved to be not only the **very earliest** and **surest heading** of all early lettuces, but also of the **very finest quality** at all seasons. **Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., $1.25.**

Big Boston This is a fine forcing variety for cold frames during the winter months, as it produces heads of very large size, often 12 inches or more across, and succeeds better in cooler temperature than most forcing strains. The large heads are beautifully blanched and of superior quality. It also heads well in the open ground during cool weather of spring and fall, and has lately become popular in the South to grow for shipping North. Our seed is an extra selected strain of the true stock. **Pkt., 5c; oz., 15c; ¼ lb., 35c; lb., $1.25.**



Big Boston Lettuce.

Black Seeded Big Boston In comparison with the well-known white-seeded Big Boston, the leaves are a trifle smaller and rather lighter shade of green with less color on edges, producing larger solid heads, which are always tender and crisp, more compact and will stand shipping better. Excellent for forcing or growing in the open ground, spring or fall. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.**

Boston Market Forcing A medium-sized, light green, compact, very early heading lettuce of excellent quality and desirable for forcing. Outdoors it is one of the earliest to form a head under favorable conditions. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., $1.00.**

Baltimore Early Market Originated by a local market gardener, who for several years past has supplied the earliest and finest Butterhead Lettuce to the Baltimore market. In comparison with May King, it is earlier and free from the red tint; the outer leaves are a light green, with the entire head fully blanched to a rich buttery yellow tint, which makes it so attractive for late fall or in cold frames and early spring use. **Oz., 15c; ¼ lb., 40c; lb., $1.25.**

Large White Loaf This is a standard variety amongst truckers for planting early in the spring or fall to stand out over winter. It is an exceedingly early heading variety, compact, tender, solid head and of fine quality. **Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 90c.**

Big Head Plants of extra large growth, producing heads of immense size under favorable conditions. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., 90c.**

Lettuce - Continued

Manns' Defiance Summer Lettuce.

Tuccorado We have been supplying this excellent variety to our customers for several years but as there has been only a limited quantity of seed available, we have not had the opportunity to offer this to our entire trade until this year. The large handsome heads are solid, crisp and of superb quality. Being of very vigorous and hardy nature, this variety is especially desirable for fall or early spring sowing. The strain is well established and we do not hesitate to strongly recommend this dependable sort to the most critical market gardeners and private growers. **Oz., 20c; ¼ lb., 60c; lb., $1.75.**

Unrivalled This lettuce might well be called an Improved Big Boston. It is rapidly coming into favor with market gardeners in sections where the Big Boston does well. Its usefulness and value are identically the same as Big Boston, but it is preferred by market gardeners because of its being a solid green color with no brownish tinge at the border of the leaves; its heads are larger and of better appearance than Big Boston. **Pkt., 5c; oz., 20c; ¼ lb., 60c; lb., $2.00.**

Improved New York or "Wonderful" Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched and stands for a considerable time before running to seed. Outer leaves a deep, rich green. **Pkt., 5c; oz., 15c; ¼ lb., 60c; lb., $2.00.**

Hanson The plant is compact and forms a large, flat, cabbage-like head, and is so slow to form a seed stalk that it often fails to seed at all. Outer leaves bright green, with prominent light-colored veins; inner leaves white and usually curved and twisted at the base; very tender and sweet; a favorite variety for home use. **Pkt., 5c; oz., 10c; ¼ lb., 35c; lb., $1.15.**

Manns' Defiance Summer This variety, introduced by us several years ago, has made a very eventful impression upon the grower, as well as the consumer. In appearance it outclasses all others. It forms handsome, solid heads of enormous size, almost as large as cabbage heads, which remain in good salable condition long after all others have gone to seed. The flavor is excellent; the leaves are a beautiful light green. Very profitable for market gardeners. **Oz., 20c; ¼ lb., 60c; lb., $1.75.**

All Seasons One of the best all-head Lettuces, standing the hot sun to a remarkable degree, slow to seed, handsome in appearance. The outer leaves are a bright soft green; the finely-blanched inner leaves are a rich golden-yellow, tender and mild in flavor. The heads are broad and nearly flat at the top; they continue to increase in size for about two weeks after they are ready for use. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.**

Improved Mammoth Salamander Grand mammoth hard-heading Cabbage Lettuce. Plants 12 inches across with extra large, solid round heads that are particularly rich and buttery in flavor; always well blanched and tender. The inner leaves are beautifully white and curled like a fine Savoy Cabbage. Splendid for summer use, both for the home table and for market. Most highly recommended. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.**

All-Heart Lettuce A very bright green and attractive variety. It forms large, solid heads, composed of thick, smooth, very tender leaves, the inner ones finely blanched and all of the finest quality. It remains a long time in head before running to seed. **Pkt., 5c; oz., 10c; ¼ lb., 40c; lb., $1.25.**

Baltimore Oakleaf This is a great improvement upon the old variety; instead of the loose, green oak-leaved-shaped plants, of inferior quality and taste, we are offering in this new strain a well-compact, large-headed, round-leaved variety of a beautiful light green color, which remains in fine condition long after other varieties have gone to seed. It is very hardy and largely used by market gardeners for late planting to stand out over winter and develop large, solid heads very early in the spring. **Oz., 15c; ¼ lb., 30c; lb., $1.00.**

Tenderheart The heads are large and round, tightly formed, tender, sweet and crisp, with waxy cream colored leaves. This fine lettuce matures in 40 days and will withstand the early summer heat splendidly. **Pkt., 10c; ¼ lb., 40c; lb., $1.25.**

The "Deacon" This has been also "renamed" San Francisco Market, Large Russian, Vauxhall. The heads are light green outside, while the inner blanched portion is beautiful cream yellow, of delicious rich buttery flavor. A splendid lettuce for summer use. It stands the hot summer heat to a remarkable degree. **Pkt., 5c; oz., 15c; ¼ lb., 30c; lb., $1.00.**

Paris Cos Lettuce.

Cos, or Celery Lettuce

Paris Self-Folding White Cos Grows to very large size, producing long-pointed, compact bunches. The outer leaves are closely folded about the center and interior is well blanched. **Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., $1.25.**

LETTUCE PLANTS
Fresh Daily in Season.
See Page 33.

Bottomly Muskmelons.

Muskmelon or Cantaloupe

1 oz. for 50 hills; 3 lbs. per acre.

The most suitable soil for melons is a warm, sandy loam, well worked and enriched with rotted manure. After danger from frost is over, sow ten to twelve seeds to a hill, about 2 inches deep; the hills being six feet apart each way. When the plants have the second pair of leaves and danger from insects is past, thin out to four plants to a hill. Cultivate frequently, deeply away from the plants and shallow close to them. When hoeing, remove the crust from around the plants and replace with fine, loose soil.

Extra Early Jenny Lind or Jersey Button An extra early, small, green-fleshed melon; fruit round and flattened at the ends, deeply ribbed and heavily netted. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

Bottomly Is planted exclusively by the foremost cantaloupe growers of Anne Arundel County, in connection with the now famous Knight, maturing about 10 days later. The most exacting will be satisfied by the delicious quality while its appearance exhibits all the refinement of form, color and netting so necessary to a good melon. **Pkt., 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.**

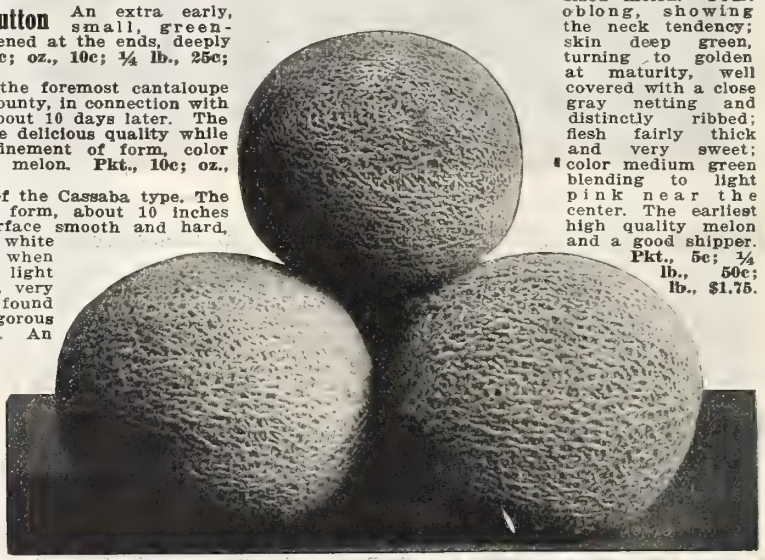
Honey Dew A new distinct melon of the Cassaba type. The fruit is large ovid in form, about 10 inches long and 8 inches in diameter; surface smooth and hard, without ribbing or netting, creamy white in color turning to a lemon tint when fully ripe. The very thick flesh is light green in color, ripening to the rind, very tender, with an extreme sweetness found in no other melon. The vines are vigorous and set 6 to 10 melons to the hill. An excellent shipper, will keep for several weeks even when fully ripe. **Pkt., 5c; ¼ lb., 40c; lb., $1.50.**

Golden Honey Dew Has a rich golden flesh which is deep and very sweet. It combines the spicy flavor of Emerald Gem with the sweetness and long keeping qualities of the original Honey Dew, of which it is a sport. **Pkt., 10c; ¼ lb., 75c; lb., $2.50.**

Thoroughbred Rocky Ford This has become one of the most popular of small or basket melons. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh light green, very thick and highly flavored. We offer an exceptionally fine stock of this sort, the fruit being wonderfully uniform in shape and quality. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

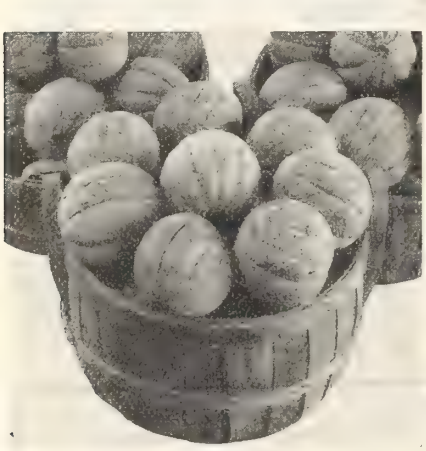
Green Fleshed Varieties

Knight's Early Maryland An extremely early medium sized melon. Fruit oblong, showing the neck tendency; skin deep green, turning to golden at maturity, well covered with a close gray netting and distinctly ribbed; flesh fairly thick and very sweet; color medium green blending to light pink near the center. The earliest high quality melon and a good shipper. **Pkt., 5c; ¼ lb., 50c; lb., $1.75.**



Rocky Ford Muskmelon.

Eden Gem This is one of the leading muskmelons of the Rocky Ford type. It is of medium size, nearly round in shape, very heavily netted and slightly ribbed. The flesh is extremely thick, seed cavity small, making it very heavy for a melon of its size. In quality it compares with the best strain of Rocky Ford. It is medium early and very prolific. The vine is vigorous and will resist blight better than most varieties. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**



Hoodoo Muskmelons.

Salmon Fleshed Varieties

Paul Rose, Petoskey, or Salmon-Fleshed Gem This is the original salmon-fleshed "basket" Melon. It holds the same place in the salmon-fleshed sorts as the Netted Gem does in the green-fleshed. **Pkt., 5c; ¼ lb., 35c; lb., $1.00.**

Burrell Gem Of sweet and aromatic flavor, oblong shape, smoothly rounded ends, closely netted and slightly ribbed dark green skin. Fruits average 6 inches long by 4 inches deep. Very fine for marketing. **Pkt., 5c; ¼ lb., 35c; lb., $1.00.**

Emerald Gem Ripens early, medium size, nearly round, flesh a delicate light salmon color, very thick, fine grained and of superb flavor. The rind is thin, dark green, ribbed, slightly netted. **Pkt., 5c; ¼ lb., 30c; lb., $1.00.**

Hoodoo The fruits average nearly round. The netting is exceptionally dense. The rind, although thin, is so very firm that the Melons arrive in distant markets in perfect condition. The flesh is very thick, highly colored and of most delicious flavor. **Pkt., 5c; ¼ lb., 35c; lb., $1.00.**

Citron

Red Seeded A small, globular variety, striped and marbled with light green. Flesh white and solid; seeds red. Used exclusively for pickles and preserves. **Pkt., 5c; oz., 10c; ¼ lb., 40c; lb., $1.25.**

Watermelon

1 ounce for 30 hills; 3 or 4 pounds to the acre.
Cultivate exactly as for Cantaloupe, except that the hills should be 8 to 10 feet apart.

Kleckley's Sweet, or Monte Cristo This very popular melon is one of the best for nearby markets. Fruits are medium size, oblong, of a dark green color and have very thin rind. Flesh bright scarlet with solid heart, crisp, sugary and melting, and entirely free from stringiness. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Halbert's Honey Fully equal in quality to Kleckley's Sweet, which it resembles. It is more even in outline, is blunter at the ends and the skin is of a richer, darker color. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Tom Watson A large long melon with dark green rind and light crimson flesh of excellent quality. It is a splendid shipper, and is being grown extensively in the South for Northern markets. The seeds are white marked with brown. **Pkt., 5c; ¼ lb., 20c; lb., 75c.**

Alabama Sweet This excellent shipping melon is the leading sort grown by Texas and other Southern melon growers. The rind is dark green, marked with a still darker green mottled stripe, and while thin, it is very tough, making the melon a first-class shipper. The flesh is bright red, fine grained, sweet and luscious, entirely stringless and very firm. The seeds are white, slightly tipped with brown, and are firmly set in small cavities near the rind. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Florida Favorite Fruit long, dark green, mottled and striped with a lighter shade. Rind thin but firm. **Pkt., 5c; ¼ lb., 15c; lb., 50c.**

Triumph A splendid shipping variety of large size and handsome appearance. The melons are rather shortened in form, but thick through. Skin deep bluish green, with dark-red flesh and of good quality. **Pkt., 5c; ¼ lb., 15c; lb., 50c.**

Dark Icing Skin dark green, indistinctly veined with a lighter shade. Fruit almost round. **Pkt., 5c; ¼ lb., 15c; lb., 50c.**

Irish Gray In sweetness it is like Kleckley's Sweets; in shipping quality, uniformity in shape, size and in productiveness it is even better than Tom Watson. The thin rind is so tough it will not burst from rough treatment in transit; its keeping quality will appeal to shippers who have experienced losses on account of glutted markets. The color is a distinct mottled greenish gray; the flesh is red, sweet, crisp and free from stringiness. An unusual melon, for although a grand shipper it is equally fine for the home garden. **Pkt., 5c; ¼ lb., 20c; lb., 75c.**

Sweetheart.

Shaker Blue Melons grow as large as that great shipping variety, the Triumph, but are very much better flavored and even handsomer in appearance. The melons are a round oval in form, from 16 to 18 inches long by 12 to 15 inches in diameter. Well-grown melons average 40 to 50 pounds, but frequently there are some that weigh from 60 to 80 pounds each. The rind is dark green, striped with narrow bands of a lighter green, and when ready for shipping the melons are seemingly of a solid dark green color. The flesh is red, the heart large, with no core, and the flavor superb. For shipping to distant markets this melon is most satisfactory. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Sweetheart Most popular for market. Large heavy fruits of oval or round form; skin very pale green, with distinct netted lines of a slightly darker shade. The large handsome fruits bear shipping well. The solid flesh is a deep rich red, crisp and melting; its luscious quality has made it a leading favorite in the Eastern markets. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

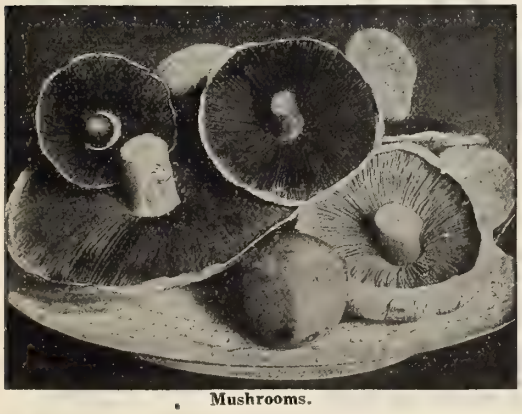
Mustard

Southern Giant Curled The true curled-leaf variety, so popular in the South for planting in the fall to furnish an early spring salad. Those who do not care for Mustard as a salad will be delighted with the leaves if cooked like spinach, as the flavor is much superior to that of spinach. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Mushroom Spawn

These delicious fungi can be grown in a warm cellar or enclosed shed, in which an even temperature can be maintained of from 50 to 60 degrees, and where a plentiful supply of fresh horse-stable manure for making the beds can be obtained. Bricks weigh about 1¼ pounds, and a brick is sufficient to plant about 9 square feet.

English Mill Track Spawn **Lb., 30c; 10 lbs., $2.50. If sent by mail, add postage.**



Mushrooms.

Okra, or Gumbo

10 lbs. to the acre.
Sow in drills during April and May. Thin until plants are 12 inches distant, and draw earth to the stems for support.

Improved Dwarf Green Prolific or Density
A distinct variety growing about 14 inches high. Grown in competition with the ordinary dwarf, it produces twice the number of pods, which are very smooth and beautiful. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

White Velvet Pods are large, perfectly smooth. **Pkt., 5c; ¼ lb., 15c; lb., 50c.**

Lady Finger Plants producing long, slender pods of pale green color. **Pkt., 5c; ¼ lb., 15c; lb., 50c.**

Perkins' Mammoth Green Pod A splendid variety. Very prolific, with slender long green pods of best quality and most desirable color for canning. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Okra.

Onion

To grow large bulbs 1 oz. to 100 ft. of drill 4-5 lbs. to the acre. To grow sets 10 oz. to 100 ft. of drill; 50 lbs. to the acre.

The Onion must have a clean and very rich soil. Use well-rotted manure freely, and get the seed in as early as possible in the spring, no matter if it is cold and unpleasant. If onions do not get a good growth before hot, dry weather, the crop is sure to be a failure. Keep the soil mellow and clear of weeds. Sow in shallow drills, not less than a foot apart nor more than half an inch deep. As onions grow on top of the ground, they may be allowed to remain pretty thick, no matter if they crowd each other. In hoeing, destroy weeds and keep the ground mellow; do not cover the young bulbs with earth. It is useless to try to grow onions on poor, unsuitable soil. Three days neglect when the weeds are growing rapidly will sometimes ruin a crop, and a week too late in sowing makes the difference between a good and a bad harvest. With proper manuring, onions can be grown on the same land for a score of years, and it will become cleaner and better every year.

White Silver Skin Onion.

White Silver Skin, or Portugal This is the most popular variety of all white Onions; is almost exclusively used for growing sets. It is a good keeper. The bulbs grow to good size, ripening early and quite evenly. The flesh is mild and sweet, the thin skin a clear silvery white, of handsome appearance if the bulbs are gathered as soon as ripened and carefully dried under shelter away from the strong sunlight. When seed is sown at the rate of 20 to 25 pounds per acre, it makes bulbs of suitable size and most desirable for pickling. **Pkt., 5c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

White Pearl Very fine and very early variety. Bulbs when well grown are large, round, flattened, with a delicate pure white skin; flesh very mild in flavor. In the South this variety is largely planted for sets. **Pkt., 5c; ¼ lb., 60c; lb., $2.00.**

Mammoth Silver King The large bulbs are of attractive form, flattened, but quite thick through, with silvery white skin, frequently measuring 20 inches in circumference. It matures quite early, coming just after Onions grown from sets are gone. Must be sown thinly to produce large onions. Our stock is true American grown, of finest strain. **Oz., 25c; ¼ lb., 75c; lb., $2.25.**

Prizetaker (American grown). The seed we offer produces large, well-ripened bulbs the first season from seed; flesh white; crisp and mild in flavor. The skin is thin, of a bright straw-yellow; form nearly a perfect globe. Under ordinary cultivation this variety will yield bulbs nearly three times as large as the Globe Danvers, while under special cultivation specimen bulbs have been raised to weigh from 4 to 5 lbs. each. These are the large, mild Onions which are sold in small crates in the early fall, and are esteemed for their large size, handsome appearance, mild and delicate flavor. **Pkt., 5c; oz., 20c; ¼ lb., 55c; lb., $1.75.**

Yellow Dutch, or Strasburg The most popular and best variety for set purposes. Is similar to the Yellow Danvers. Flat in shape, good color and size, but as a set onion it has the quality of ripening down earlier and more uniformly. **Pkt., 5c; ¼ lb., 40c; lb., $1.50.**

Yellow Globe Danvers Our superior stock of this celebrated variety is of fine round shape. It grows to good size, with thin yellow skin, white flesh, fine grained and excellent quality. It ripens early, keeps well and is very productive. **Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., $1.50.**

Red Wethersfield Large sized, somewhat flattened; skin deep red and very hardy. **Oz., 20c; ¼ lb., 50c; lb., $1.75.**

Yellow Globe Danvers Onion.

Australian Brown An early and very hardy variety which does especially well in the South. Should be planted early, on low, wet ground, to get large bulbs. The skin is thick and the color is a rich brown. Is especially noted as a long keeper, as it keeps well into spring and much longer than other varieties. **Pkt., 5c; ¼ lb., 45c; lb., $1.50.**

Australian Yellow Globe It is a fit companion to the new well-known Australian brown. The bulbs are globe-shaped, with a light brown-yellow skin. Solid and heavy. **Oz., 15c; ¼ lb., 50c; lb., $1.75.**

Onion Sets

We are large producers and contractors of Onion Sets, with best facilities for handling large quantities.
Prices quoted below are subject to market changes.

Plant in drills 12 inches apart and 4 inches between the sets

Choice Yellow Danvers

Quart, 15c; bushel, $2.50.

Choice Yellow Strasburg

Quart, 15c; bushel, $2.50.

Choice White Silver Skin

Quart, 20c; bushel, $3.00.

Parsley

1 oz. to 150 feet of drill.

Sow in rows 1 foot apart and 1 inch apart in the row. The seed is slow to germinate, and should be given the most favorable conditions. A deep, rich, loamy soil is required. For winter use a few plants placed in a box in the cellar will give a supply.

Extra Dark Moss Curled The large leaves are very heavily crimped and curled, being quite moss-like in appearance and of a peculiarly rich, extra dark green coloring. Very productive and most attractive as a garnish, both on account of this green coloring and fine mossy appearance. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Fine Double Curled Plants of dwarf, compact growth and the young leaves have the edges heavily crimped, being of quite moss-like appearance. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Extra Curled Dwarf, or Emerald The plants are of dwarf, compact growth, while the leaves are of a handsome bright green coloring, very finely crimped and curled, of a most ornamental appearance. One of the finest for garnishing or flavoring. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Turnip-Rooted, or Hamburg The edible portion of this variety is the large swollen or fleshy root, which resembles the root of a Parsnip, and is highly esteemed for flavoring soups, stews, etc. As the root is the portion desired, the young plants should be well thinned out. **Pkt., 5c; oz., 15c; ¼ lb., 25c; lb., 90c.**

Extra Dark Moss Curled Parsley.

Parsnip

1 oz. to 150 feet of drill.

Parsnips are well known as a delicious table vegetable, but their value for the purpose of feeding cattle and stock is but little appreciated. The parsnip is rich in saccharine food, which adds greatly to the richness of the milk when fed to cows, while the fresh, succulent roots increase the flow of milk as greatly as does the use of fresh, green food in the spring. It is especially valuable for the purpose from its extreme hardiness, as the roots can be left in the ground all winter and improve in quality by the continued freezing.

Sow as early in the spring as the weather will permit, in drills 15 inches apart and half an inch deep in rich, well-manured ground, well dug. Cultivate similar to Carrots, and thin out to 6 inches apart in the rows. To keep well in the ground over winter, draw a little earth over the tops.

Hollow Crown, or Large Sugar The best variety in cultivation for general use; roots white, smooth, of intermediate length; sugary, of excellent flavor. **Pkt., 5c; ¼ lb., 50c; lb., $1.50.**

Improved Guernsey An improved strain, which has given general satisfaction. The roots do not grow so long as those of the Hollow Crown, but are of greater diameter and more easily gathered. Of excellent quality. **Pkt., 5c; ¼ lb., 50c; lb., $1.50.**

Pumpkins

King of the Mammoths Pumpkin.

1 ounce to 15 hills; 4 lbs. per acre, in hills 10 by 10 feet apart.

CULTURE. Sow in good soil in May, when the ground has become warm, in hills 8 to 10 feet apart each way, or in fields of corn about every fourth hill; always avoid planting near other vines, as they will hybridize.

Sugar Pie Pumpkins This is the best of all Pumpkins for pies. The fruit is small to medium in size, flesh solid and fine grained, and the seed cavity small, and it is a splendid keeper. **Pkt., 5c; ¼ lb., 30c; lb., 90c.**

Quaker Pie It is oval in shape, and tapers toward each end; of a creamy color, both inside and out. Being fine grained and rich flavored, it makes a superior quality of pies. **Pkt., 5c; ¼ lb., 30c; lb., 90c.**

Connecticut Field Used principally for feeding stock, shape almost round, of medium size, skin deep yellow and smooth, flesh yellow. **Pkt., 5c; ¼ lb., 25c; lb., 75c; 10 lbs., $6.50.**

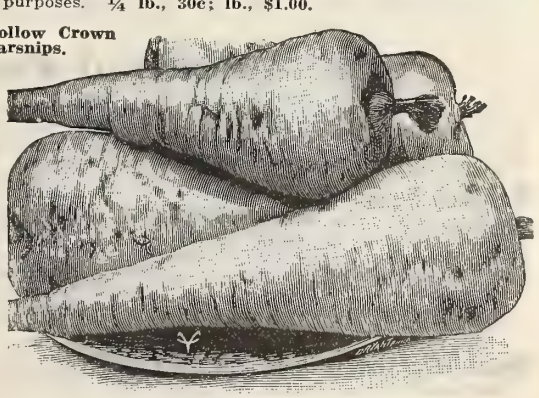
Cushaw, or Crookneck One of the most popular varieties to grow for pies as well as for stock feeding. Fruits 2 feet in length, with long, solid neck, most frequently curved in form; seeds are located in the lower bulb-like end. Skin striped with mottled bands of creamy white. Flesh rich, creamy yellow, tender and of exceptionally fine flavor. **Pkt., 5c; ¼ lb., 30c; lb., $1.00.**

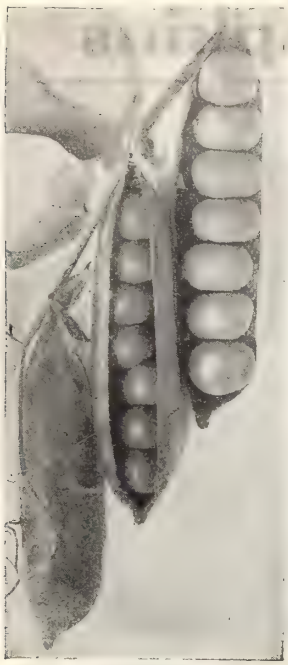
Sweet Potato Excellent for pies, pear-shaped, medium sized, flesh and skin creamy white, fine grained, sweet and delicious; first-class keeper. **¼ lb., 30c; lb., $1.00.**

Japanese Pie Crookneck variety, with extremely small seed cavity; nearly all solid meat; quality extra fine; seeds distinct in appearance, being curiously sculptured in the manner of Chinese letters. Productive, ripens early, medium size, good keeper. **¼ lb., 30c; lb., $1.00.**

King of Mammoths This giant variety grows to enormous size. Deep yellow, glossy color. Splendid to grow for stock and exhibition purposes. **¼ lb., 30c; lb., $1.00.**

Hollow Crown Parsnips.





Extra Early Alaska Peas.

PEAS

1 quart to 100 feet of drill; 1½ bushels per acre.

Peas grow best on a light, rich, mellow soil under cool and moist weather conditions. Fresh manure and very rich or wet mucky soil should be avoided.

The extra early varieties are very hardy and should be planted as soon as the ground can be made ready, while the larger wrinkled varieties, which are not as hardy but of superior quality, may be planted when the soil has become slightly warmed, as the seed will rot if planted too early.

For private use, sow the seed in double rows, 18 inches apart and 3 inches apart in the row; for market, in single rows 2 to 3 feet apart and 1 inch apart in the rows. The peas will give quicker returns if covered only one inch deep, and where earliness is most important they may be treated this way. Larger pods and greater quantity will be produced if the seed is planted in trenches three to six inches deep and covered with only one to two inches of soil. When the plants are five or six inches high, fill the trench level with the surface. This will result in deep rooting, prevent mildew and prolong the bearing season. If the peas are covered to the full depth at first, or if water is allowed to stand in the trenches the seed will not germinate or grow well. The crop should be gathered as fast as it becomes fit for use, as even a few ripe pods left on the vines tend to retard the development of the young pods and prevent the formation of new ones.

First Early Smooth Varieties

Extra Early Alaska Vine strong and vigorous, 2 to 2½ feet high, of a peculiar light green color, pods 3 to 3½ inches long, straight and blunt at the end. Is ready for picking 49 to 50 days from planting. Seed round, blue, slightly pitted. Matures crop very evenly. **Qt., 35c; pk., $2.00; bu., $7.00.**

Pedigree Extra Early This superb strain is a great favorite with large growers. Equally as early as the choicest stock of Alaska, the peas are **much better in flavor.** The vines are quite slender, of very quick growth, and average 18 to 24 inches in height. The pods are well filled, and the entire crop can be gathered generally in one picking. **Qt., 35c; pk., $2.00; bu., $7.00.**

New Market Surprise This new and very profitable variety is as early as Extra Early Alaska and as large and prolific as Prolific Early Market. It has for these reasons become established as a favorite among private growers and market gardeners. Our trials during the past three years have given us every reason to be very enthusiastic over the possibilities of this pea and we recommend it highly to all growers who want an early, prolific, and high quality crop. The vines grow about 2 feet high and bear a wonderful crop of large pods, well filled with luscious peas. **Pt., 20c; qt., 35c; pk., $2.00; bu., $7.00.**

Long-Podded Alaska A favorite with truckers and shippers to Northern markets, producing a very early crop of large, broad, well-filled, dark green pods. Equally as hardy as Extra Early Alaska and much larger. The vines usually grow three feet high and the crop will remain fresh a long time after picking. **Qt., 40c; pk., $2.75; bu., $9.50.**

Bountiful Resembling the Alaska in general habit of growth. Vine 36 inches, foliage gray-green; pods 3½ inches in length, pointed, gray-green in color. Fit for table use 55 to 57 days from planting; a prolific bearer, making it a valuable variety. Seed blue, medium pitted. **Qt., 45c; pk., $2.75; bu., $10.00.**

Early Bird Very large, early, hardy, semi-wrinkled variety, producing a good crop of fine quality. Vines 2 to 2½ feet. **Qt., 50c; pk., $3.00; bu., $11.00.**

Prolific Early Market Longer podded and more prolific than Pedigree Extra Early, for which it is a fit companion and close second, as it comes in only four or five days later. The vines average 24 to 30 inches high and produce pods singly. One picking will take about three-fourths of the crop, and a second picking, which is to be made about three days later, will take the balance. It is remarkably uniform and very free from spots of any kind. The peas are of the finest quality. **Qt., 35c; pk., $2.00; bu., $7.00.**

Second Early Smooth Varieties

Improved Sugar Marrowfat This fine Pea has given wonderful satisfaction to all who have planted it. It grows about 2 feet high, bears enormous handsome pods, which are completely filled with large, deliciously flavored, deep green peas. It is undoubtedly the most productive Pea offered. **Qt., 40c; pk., $2.50; bu., $7.00.**

French Canners It is very prolific, bearing an abundance of long pods, containing from 7 to 9 peas of excellent flavor. Height 3½ feet. **Qt., 30c; pk., $2.00; bu., $6.50.**

Dwarf Giant Podded Prolific Green Marrow This variety has become a favorite with the consumer as well as grower. Vines of a strong growth, with a large dark green foliage, but only 18 to 20 inches in height, and do not need to be supported. Pods of large size, well filled with large dark green peas of rich marrow flavor. **Qt., 50c; pk., $3.25; bu., $10.50.**

Edible Podded Peas

This is a class of Peas not generally known in this country, but much used abroad, in which the sweet, brittle and succulent pods have none of the tough inner lining found in the ordinary varieties of garden peas. They are used in the same way as snap or string beans.

Mammoth Melting Sugar This is by far the largest and finest of the true sugar or edible podded Peas. The vines are of strong, vigorous growth, frequently 4 to 5 feet in length, and the pods come rather late, or about the same time as the Telephone and Stratagem Peas. The vines are very productive of enormous pods, and continue bearing for a long time. Pods average 5 to 6 inches in length and 1⅛ inches broad, thick and fleshy. Broken and boiled like string beans and served with butter sauce, they have a luscious flavor. **Qt., 60c; pk., $3.75.**

Dwarf Sugar, Edible Pods This variety possesses all the fine cooking qualities of the Mammoth Sugar, nearly two weeks earlier in maturing, average growth 30 inches. **Qt., 50c; pk., $3.00.**

New Market Surprise Peas.

PEAS

—Continued

Wrinkled Varieties

Extra Early

Gradus Also called "Prosperity" Pea. This popular new large-podded wrinkled pea of finest quality matures pods only two or three days later than the small-podded, round-seeded extra earlies. Vines grow from 2½ to 3 feet. We consider it one of the most desirable for the market garden or home use. **Qt., 50c; pk., $3.00; bu., $11.00.**

Pioneer Introduced two years ago and found to be a moneymaker for the trucker. Vine 24 inches, large, dark green pods, maturing in about 75 days. **Qt., 50c; pk., $3.25; bu., $12.00.**

Little Marvel A new variety of recent introduction, similar to Nott's Excelsior. The vines grow 15 inches high and produce an abundance of pods; finest quality. **Qt., 50c; pk., $3.25; bu., $12.00.**

Pilot Very dwarf, large pods of fine quality produced early and abundantly. **Qt., 50c; pk., $3.25; bu., $12.00.**

American Wonder This is a dwarf variety, and leads all others in point of earliness, growing about 10 inches high, and produces a profusion of good sized, well-filled pods, with finest-flavored peas. **Qt., 45c; pk., $2.75; bu., $10.00.**

Premium Gem Nearly as early as the American Wonder, and the very productive vine is decidedly larger, growing to a height of from 15 to 18 inches. The pods are large and crowded with 6 to 8 very large peas of fine quality. **Qt., 45c; pk., $2.75; bu., $9.00.**

Nott's Excelsior One of the best Early Dwarf Peas. It combines the good qualities of the American Wonder and Premium Gem Peas. The vines are larger and more productive than American Wonder and earlier than Premium Gem. The peas in sweetness and quality unsurpassed. **Qt., 45c; pk., $2.75; bu., $10.00.**

Potlatch Strong, vigorous vines of even growth, 20 to 24 inches in height, with luxuriant dark foliage, bearing pods medium green in color, 3½ to 4 inches in length. Broad and pointed at the ends. No variety known will produce more pods, and no pods could possibly shell out better. The Potlatch is a variety from which everyone may expect great things. Fit for table use 61 days from planting. Seed green, wrinkled, large in size. **Qt., 45c; pk., $2.75; bu., $10.00.**

Thomas Laxton This variety is of the same growth with that of the Gradus, but is usually three to four days later for market. The pods are square at the ends instead of having a long, sloping point, and considered by some to be of a better flavor than the Gradus. **Qt., 50c; pk., $3.00; bu., $11.00.**

Champion of England A universal favorite, delicious flavor, profuse bearer of large pods, filled well with large green wrinkled peas. Height about 4 feet. **Qt., 45c; pk., $2.75; bu., $10.00.**

Daisy, or Dwarf Telephone A second early, of robust but remarkably even growth. From 16 to 18 inches high. The stout plants are fairly loaded with large, bright green pods. Each pod contains from 7 to 9 large peas of a light bright green color, tender and well flavored. **Qt., 50c; pk., $3.00; bu., $11.00.**

Laxtonian This is the finest dwarf early pea offered today. The vines grow 18 to 20 inches high and produce an enormous crop of dark green pods as large as Gradus, maturing a few days ahead of this variety. **Qt., 55c; pk., $3.25; bu., $12.00.**

Sutton's Dwarf Defiance A new wrinkled marrow of fine quality. Vines stocky, quite dwarf, pods large and well filled. The exceeding productiveness of this variety for a dwarf sort makes it one of the most valuable of all for home gardens. **Qt., 50c; pk., $3.00; bu., $11.00.**

Admiral Dewey The largest podded pea yet introduced. Height 3½ feet; pods a rich dark green color, frequently 6 inches long, beautifully shaped. Peas large, tender and of first-class flavor. **Qt., 50c; pk., $2.85; bu., $10.00.**

Long Island Mammoth or Telegraph Very popular with market gardeners who want a large, handsome pod of a deep green color. **Qt., 45c; pk., $2.75; bu., $10.00.**

Alderman This splendid new pea comes from a European specialist in hybridizing. It is similar in growth to the Telephone, maturing about the same time. **Qt., 50c; pk., $3.00; bu., $11.00.**

Dwarf Champion This new pea possesses all the merits of the Champion of England, with less vine (26 inches), larger pods and more of them, and coming a little earlier. **Qt., 45c; pk., $2.75; bu., $10.00.**

King Edward VII Hardy and very prolific. Vine 1½ feet in height, with dark green foliage. Pods dark green, curved and pointed at the ends. Ready for table use 60 days after planting. **Qt., 50c; pk., $3.00; bu., $11.00.**

Telephone A tall-growing late sort, 3½ to 4 feet in height, having pods of very large size, containing 6 to 7 large peas of delicious flavor. Continues in bearing for quite a long time. **Qt., 50c; pk., $2.75; bu., $10.00.**

Boston Unrivalled An improved strain of the popular Telephone. Vines grow 4 to 5 feet high, and are covered with fine, large pods. **Qt., 45c; pk., $2.75; bu., $10.00.**

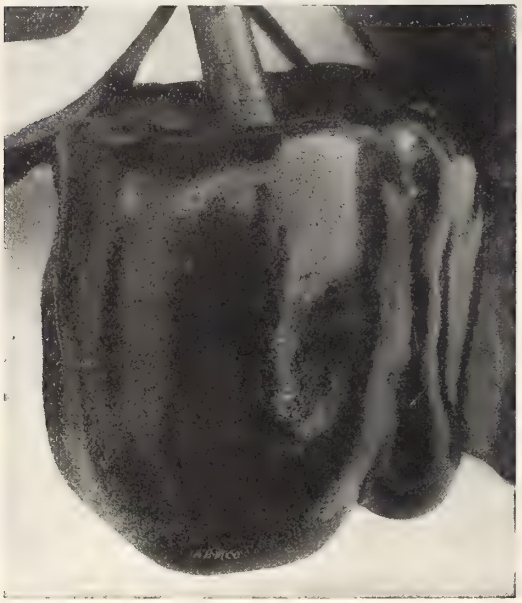
Peppers

1 oz. to 1,500 plants.

Peppers should be sown either indoors or in hotbeds early in April and transplanted to the permanent beds when about 3 inches high in two foot drills and two feet apart in the drills. The seed can also be sown in open ground when danger from frost is past but the crop will naturally be much later. A top dressing of fertilizer or poultry manure well mixed with the soil when the plants are about 6 inches high will materially aid in the production of a big crop.

Royal King Pepper.

Royal King This remarkable new variety represents the result of 18 years of continuous selection and re-selection on the part of one of the largest and most reliable growers of pepper seed in this country. The type is firmly established, producing fruit which is exceptionally uniform in size, shape, color and quality. The plants grow about 2½ feet high, and are vigorous; compact in their nature of growth, and very productive, commencing to bear very early and continuing until killed by frost. The fruit is very large, bright and glossy and the extremely thick flesh is sweet and mild. They will stand distant shipping and hold up well for market as they do not wilt nor become ripe near so quickly as Ruby King and other large varieties. This strain is extensively grown in the South by large shippers and under very favorable conditions a record of 800 bu. per acre has been established. It is a decided improvement upon anything yet offered in the way of a large sweet pepper and deserves the attention of every trucker and home gardener, as the quality and marketing possibilities are unexcelled by any other variety. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.00.**



Ruby Giant Pepper.

Ruby Giant A variety of Mango Pepper which is of a desirable size and shape for stuffing. A cross of Ruby King and Chinese Giant; grows to large size and is very mild. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.50.**

Pimento or Perfection A medium early, prolific, perfectly mild variety with extremely thick flesh. On account of its thick flesh it will hold up for a long time and is an excellent sort for canning whole. **Pkt., 10c; oz., 40c; ¼ lb., $1.25.**

Chili, Small Red conical pod about 2 inches long, very hot. Fine for pepper sauce and seasoning. **Oz., 35c; ¼ lb., $1.15; lb., $4.00.**

Cherry Red Fruit small, round, color rich scarlet; very hot. **Pkt., 10c; oz., 30c; ¼ lb., 85c; lb., $3.00.**

Ruby King Good variety for mangoes or pickling; very productive and sweet. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.50.**

Chinese Giant This desirable variety is undoubtedly the largest Sweet Pepper ever offered. The flesh is quite thick, very mild and remarkably sweet. **Pkt., 10c; oz., 65c; ¼ lb., $2.00.**

Large Bell, or Bull Nose This large early and productive sort has the most pungent flavor of all the large peppers. Thick flesh. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.00.**

Neapolitan A variety of Sweet Pepper which matures very early. It grows about 3 inches long, and is remarkably sweet. **Pkt., 10c; oz., 35c; ¼ lb., $1.15; lb., $3.75.**

Long Red Cayenne The pods are long and slender; bright red color and very pungent. This is an old-time favorite and is used extensively for bunching with pot-herbs. **Pkt., 10c; oz., 40c; ¼ lb., $1.25; lb., $4.00.**

World Beater This splendid pepper of recent introduction is a cross between Chinese Giant and Ruby King and combines the size of one and the earliness of the other. It is exceedingly mild and the color is at first green changing to a beautiful shade of scarlet. The flesh is very thick, making distant shipment possible. **Pkt., 10c; oz., 45c; ¼ lb., $1.40; lb., $5.00.**

PEPPER PLANTS
In All the Leading Varieties
Fresh Daily—See Page 33

Chinese Giant Pepper.

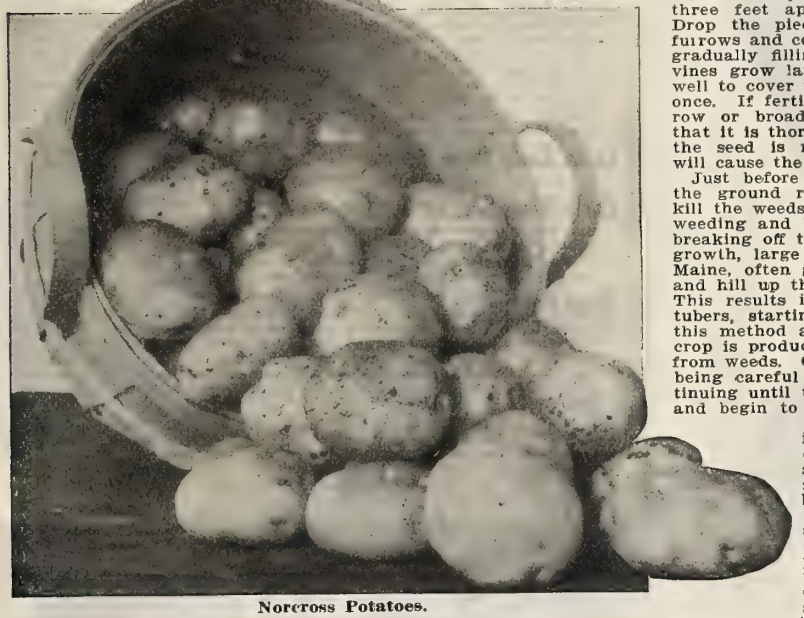
Seed Potatoes

We offer only strictly first class and dependable seed, produced in Aroostook County, Maine, and in most every instance certified by the Government to be free from disease and true to type.

Our prices are very low, quality considered, and are quoted subject to market fluctuations.

Potatoes will adapt themselves to various soil conditions as easily as most vegetables. A better crop will be produced, however, on a sandy loam which contains a quantity of well rotted vegetable matter. A clover sod, vetches turned under in the fall, or land which was heavily manured for a previous crop supply ideal conditions.

In preparing the seed the eyes should be cut so that the largest part of the surrounding flesh is situated toward the stem end, because the eyes of a potato always have a root system running toward that end and for that reason the sprouts cannot draw moisture from the opposite direction. If the ground you intend to use has produced a scabby crop previously or the seed shows any trace of disease, the pieces should be soaked in a formaldehyde solution as a preventative.



Norcross Potatoes.

For a very early crop, run off furrows about three feet apart and about four inches deep. Drop the pieces about 15 inches apart in the furrows and cover to a depth of about 1½ inches, gradually filling in the furrows to level as the vines grow larger. For main crop it is just as well to cover the eyes with four inches of soil at once. If fertilizer is used, apply it either in the row or broadcast before planting and be sure that it is thoroughly mixed with the soil so that the seed is not burned. Fresh stable manure will cause the potatoes to become scabby.

Just before the sprouts have appeared above the ground run a light harrow over them to kill the weeds and break up the crust. Continue weeding and harrowing until there is danger of breaking off too many sprouts. At this stage of growth, large growers, following the practice in Maine, often give a second dressing of fertilizer and hill up the vines, completely covering them. This results in the growth of another layer of tubers, starting just below the new vines. By this method a much larger but somewhat later crop is produced, and the field is once more free from weeds. Cultivate thoroughly and frequently, being careful not to cut any of the roots, continuing until the vines have attained full growth and begin to spread.

Spraying for insects and blight is very necessary, Pyrox, Bug Death, etc., giving very satisfactory results. Preparations containing arsenic should be used lightly as this has a tendency to weaken the plants.

The size and quality of the crop and the ability to resist disease is directly dependent upon the seed planted and no amount of cultivation or attention will offset the uncontrollable results of poor seed. Be sure of your crop and plant only the best Maine grown seed potatoes.

Early Six Weeks Medium sized, very smooth skinned and shallow eyed; in color light pink and of fine texture.

Red Bliss, or Bliss Triumph This variety is rapidly growing in favor. The tubers are round and uniform in shape, eyes slightly depressed and of a beautiful bright red color, very hardy and vigorous, maturing with extra earlies.

Early Ohio Generally accepted throughout the Western States as the standard early Potato. A week earlier than Early Rose. Dull red, round oblong, quality dry and mealy; requires rich, moist soil for perfect development.

Second Crop Seed Potatoes are of medium size, and require less seed per acre than Main-grown stock. Planters who have tried them will use no other. Prices on application.

Early Harvest Tubers white, of finest quality, oblong in shape, good shipper and may be considered as a second early variety. Particularly valuable for market gardeners by reason of its handsome shape and color.

Irish Cobbler The biggest Potato and greatest producer known among the first early varieties. It will outyield all other early kinds and equal most of the later varieties. Fine quality, color a pure creamy white, shape round to oblong and smooth. Vines very stocky, with dark foliage.

Early Northern A seedling of the Early Rose, which it much resembles in appearance; earlier than Early Rose and more prolific.

Early Rose For a generation the standard Potato of the whole country for earlies, yield, thrift, beauty and table qualities, because it always succeeds well in any soil, in any climate and in any latitude. Too well known to need description. Our stock is strictly pure.

Ensign Bagley, or White Rose Round to oblong in shape, and in quality all that can be desired, and not susceptible to disease.

Maggie Murphy This is a decidedly valuable acquisition to the Potato family. The shape is flattened oblong with smooth eyes and of rose color. It is very hardy, productive and bears tubers of large size.

Green Mountain White skin, flat, oval form, smooth of good appearance; fine for the table quality. Ripens slowly, and is a good keeper. Valuable for late crops. Now taking the lead in all markets.

Vermont Gold Coin A very desirable main crop variety of recent introduction; has proven to be very hardy, of vigorous growth, most productive, of the very best quality. The tubers are slightly oblong, rather broad and quite thick through. The eyes are small, and there is but little waste in paring. The skin is thin, smooth and glossy, of a light golden tint.

White Star Medium late, of good size and quality, white in color; eyes flush with the skin and a good keeper.

Carman No. 3 It is a good late variety and one of the greatest yielders; large, oblong, slightly flattened.

Norcross Its shape is a little oblong and slightly flattened, the skin is finely netted or rusty, which always indicates good cooking and eating quality. The tubers are large and very uniform, maturing medium early.

American Giant Is one of the heaviest yielders grown, and a favorite with all large growers. It is a long, white, smooth, handsome Potato, of good quality, with shoal eyes; maturing with the second earlies and is a late keeper.

Prosperity This is a very handsome general crop Potato. Its skin is slightly rusty, of a light cream-white color; its shape is an oblong and slightly flattened. The eyes are very shallow. The size is large and desirable, very few under market size. Always smooth and regular in form and of splendid quality.

Burbanks This variety is quite largely used as one of the reliable late Potatoes, is of good size, white skinned, of oblong shape and good yielder. It is a late keeper and also of good flavor.

Puritan A splendid early variety, fine quality, color a pure white, shape oblong, yielding large crops.

Seed Sweet Potatoes

Yellow Jersey Select "up-river" strain. A select strain of smooth, short, "chunky" Yellow Jersey. Yields 25 to 50 per cent more marketable stock and sells higher than any other. Dry and sweet; decidedly the best of all.

Prices subject to market fluctuations.

Sweet Potato Plants For prices see page 35.

Prices on Application

Radishes

1 oz. for 100 feet of drill; 9 lbs. per acre.

Light, sandy soil, rich in organic matter is essential to produce crisp and tender radishes. For an early crop sow the seed as soon as the ground can be worked, in drills 6 to 10 inches apart, covering the seed half an inch deep. When the plants are well started, thin out to one inch apart in the drills. Frequent watering in dry weather is very beneficial as high quality is largely dependent upon rapid growth. For a continuous supply, successive plantings should be made at intervals of 10 days to two weeks, selecting varieties best suited for the season.

Extra Early Scarlet Globe Radishes.

Extra Early Scarlet Globe (Forcing) This is the market gardener's favorite as a forcing Radish, very early; mild and crisp, juicy and tender; top small; will stand heat without becoming pithy. One of the best selling and most attractive Radishes on account of its bright scarlet color and handsome shape. Our stock of this is the very best, selected with special care as to size, shape, color and earliness, and market gardeners will find it a money maker, as it is just right in every respect. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Extra Early Deep Scarlet Turnip Deep scarlet, turnip shaped, small top, desirable for frames or outside. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Early Deep Scarlet Turnip For outdoor sowing this is the more important in the Baltimore market, thousands of pounds being annually used. Our stock is the very best. It has a rich scarlet color, ball shape, a little larger top and matures a week later than the forcing varieties. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Ruby-Pearl The color is a bright scarlet and white. It is extremely quick to mature, being ready for the table in 20 days from the time of sowing the seed. It is invaluable for forcing under glass as well as for growth in the open air. The skin is very smooth, and its clear color gives it an appetizing appearance on the table. Its flavor is excellent, and its qualities high in all respects. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Early Scarlet Turnip, White Tipped One of the handsomest of the Turnip Radishes for early planting outdoors. Roots slightly flattened on the under side, color very deep scarlet with a white tip; flesh white and of the best quality. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Crimson Giant A variety combining earliness and great size. It grows much larger than other extra early varieties, but does not become pithy, even when fully twice as large in diameter and a week older; beautiful crimson-carmine; turnip-shaped; flesh firm, crisp and tender. We recommend it for outdoor garden planting as well as for greenhouse forcing. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

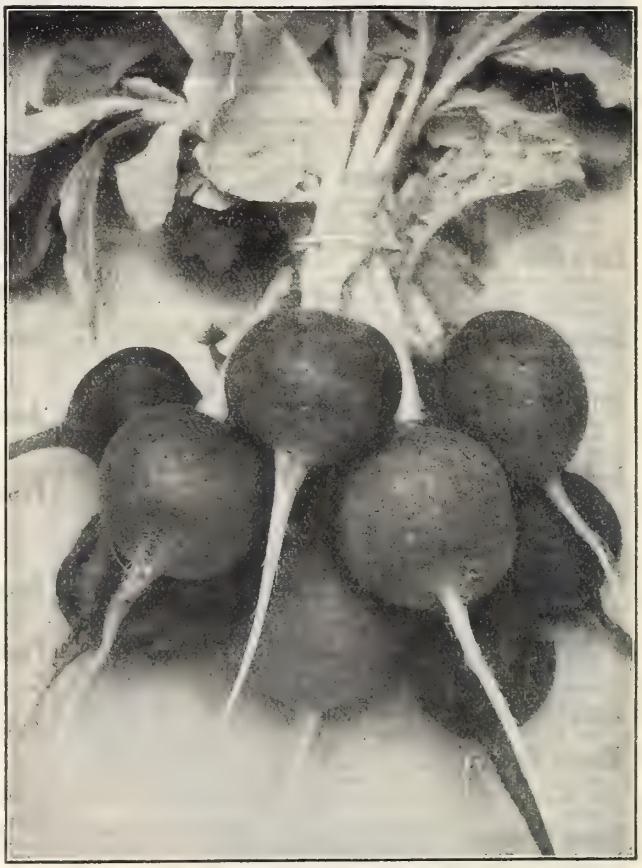
(New) Round Scarlet China This new variety of the China Radish may be sown at intervals from spring until autumn. Matures in from six to seven weeks, and is much hardier than most other varieties. Valuable as a winter Radish, as well as for summer. Its handsome round shape, rich scarlet color and pure white flesh commend it to all. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Golden Globe Second early, grows to a good size; stands the heat well; very popular with market gardeners, a beautiful golden yellow, flesh crisp and tender. **Pkt., 5c; ¼ lb., 30c; lb., $1.00.**

Half Long Deep Scarlet, or "Paris Beauty" This is a splendid strain of similar season to the Early Long Scarlet. Very popular. The Radishes are of slightly larger diameter and most brilliant scarlet coloring. Flesh purest white, crisp and juicy. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

French Breakfast Color is a scarlet rose, shading to a waxy white at the tip: quick growth, mild and tender, good for forcing. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Feltons Model White Box (Forcing) It is of most handsome shape, very early and has but few leaves, thus making it of special value for growing in hotbeds or "boxes," and one-third more radishes can be grown in the same space than with most other sorts. It is of clear white color, solid, juicy and unsurpassed in flavor. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**



Crimson Giant Radishes.

White Chinese Radish.

Radishes - Continued

Long Scarlet This is the standard extra early long scarlet market variety, short top, long scarlet roots; crisp, fine flavor. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

White Icicle Radish It fully equals in crisp, tender flesh and mild flavor the popular White Vienna or Lady Finger, while it is as early as Long Scarlet Short Top. Planted in spring, the young Radishes are ready for use in 20 to 25 days from sowing the seed, and their long, slender form and pure paper-white skin are most attractive when bunched for market. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Cincinnati Market ("Glass Radish.") A selected strain of the Long Scarlet, growing to slightly larger size, fully as early and darker in coloring. **Pkt., 5c; ¼ lb., 20c; lb., 50c.**

Long Bright Scarlet, White Tipped This is the brightest and handsomest colored scarlet Radish known. **Pkt., 5c; ¼ lb., 20c; lb., 50c.**

Improved Chartier The color at top is crimson, running into pink at middle, and from thence downward is pure waxy white. It is of a very quick growth, and ready for use nearly as early as Long Scarlet. Exceedingly tender and crisp. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Pearl Forcing This variety is a cross between Wood's Early Frame and White Strasburg. The color is a pearl white, with a fine waxy appearance, very firm and solid. They will remain in good condition longer than any other extra early variety. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Long White Vienna, or Lady Finger This is the finest Long White Radish in cultivation; it is most beautiful in shape, white in color, both skin and flesh are pure snow-white, crisp, brittle, and of rapid growth. Highly recommended. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

New White Strasburg A very new desirable summer variety, a favorite with our market gardeners; skin and flesh both white. It is excellent quality and a quick grower. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Perpetual White Summer This variety, introduced by us, has given splendid satisfaction to all who have tried it. They are pure white, of uniform good quality, crisp and brittle, and they keep longer in a fit condition for the table than any variety we know of, hence their name. Perpetual White Summer. Can be sown any time of the year, and will always produce good radishes fit for market earlier than the Chartier, and keep in perfect shape for marketing about four weeks, or longer for home use. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Strasburg Radish.

White Stuttgart Quick growing and therefore very early. Of the largest size, and both flesh and skin are pure white; quality fine, firm and brittle, can be pulled for use at any stage. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Large White Summer Round, smooth, very white, crisp and tender. The market gardener's favorite for summer use. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Winter Varieties

White Chinese New Celestial Large, stump-rooted Radish with white skin and flesh. Can be sown from July 1 to August 15, and will keep in prime condition, mild in flavor, brittle, and never woody. Market gardeners will find this a special seller. **Pkt., 5c; ¼ lb., 25c; lb., 60c.**

White Round Spanish Root large, often five inches in diameter, turnip-shaped, skin pure white, flesh white, crisp and not becoming pithy, very compact and highly flavored; an excellent sort for winter, as the roots keep a long time. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Improved Half-Long, Black Spanish Radish This new sort is intermediate in shape between the Old Round and Long Black Spanish, and much superior to either. Flesh mild, very sweet and crisp, never pithy, and is decidedly the best of all black radishes. If stored in damp sand in the cellar, they will keep all winter. **Pkt., 5c; ¼ lb., 25c; lb., 90c.**

Round Black Spanish Radish.

Round Black Spanish Like the Long White Spanish, except in shape. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Chinese Rose A splendid rose-red variety that keeps during winter; tempting flavor and very crisp. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

Long White Spanish This variety is of a snow-white color, similar to the White Strasburg in shape, but rather more stump-rooted. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Long Black Spanish Black skin, white flesh, very firm and solid, good keeper, grows long and large. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

California Mammoth Was first introduced into this country by the Chinese in California. It is pure white, about one foot long, and two or three inches through, tapering regularly to the tip. The flesh is tender and crisp, keeping well through the winter. **Pkt., 5c; ¼ lb., 20c; lb., 60c.**

White Icicle Radish.

Mammoth Sandwich Island

Salsify
or Oyster Plant

1 oz. for 50 feet of drill.
Requires a well enriched, mellow soil, which, previous to sowing the seeds, should be stirred to a depth of 18 inches. Sow early in the spring in drills 15 inches apart; cover the seed with fine soil 1½ inches in depth, and when the plants are strong enough thin out to 6 inches apart. As the leaves resemble grass, be careful they are not mistaken for it when weeding.

Large White The standard variety, with white roots 1 inch in diameter at shoulder and tapering to a length of 8 to 10 inches. **Oz., 20c; ¼ lb., 40c; lb., $1.50.**

Mammoth Sandwich Island
A new and improved type, producing roots of nearly double the size and weight of the old varieties; mild and delicately flavored. **Pkt., 5c; ¼ lb., 40c; lb., $1.25.**

Herbs

	Pkt.	Oz.	¼ lb.
Anise	$0.05	$0.15	$0.40
Basil	.05	.20	.60
Caraway lb., 75c	.05	.10	.25
Coriander	.05	.10	.20
Dill, extra large	.05	.10	.20
Fennel lb., 60c;	.05	.10	.20
Lavender	.10	.30	1.00
Marjoram, sweet	.10	.15	.40
Sage	.10	.50	1.75
Summer Savory	.05	.20	.50
Thyme	.10	.75	2.25

Rhubarb or
Pie Plant

Sow in April or May, in drills 1 foot apart; when 3 or 4 inches high, thin out in rows 6 to 10 inches apart. Transplant the ensuing fall or spring in rich soil. Set out the roots 3 to 4 feet apart each way; the following spring it will be fit to use.

Linnaeus **Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., $1.25.**

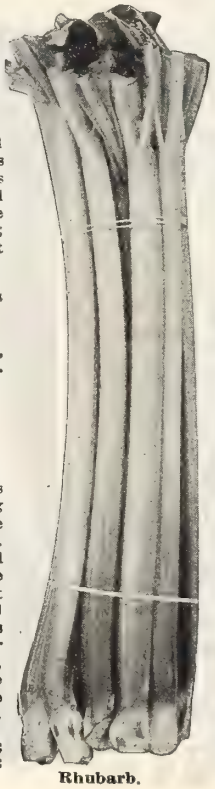
Victoria Very large, the finest cooking variety. **Pkt., 5c; oz., 20c; ¼ lb., 40c; lb., $1.25.**

RHUBARB ROOTS—See page 33.

Sorrel

A hardy plant grown for its leaves, which are used as boiling "greens" or salad. Seed should be sown thinly in drills early in spring. When well started thin out to stand 4 to 6 inches apart in the row. The leaves can be gathered for use at any time after the plants are well started in growth, and the roots will continue to produce a further supply. The plant is entirely hardy, and, starting into growth early the following spring, will afford a large supply of fine "greens" quite early.

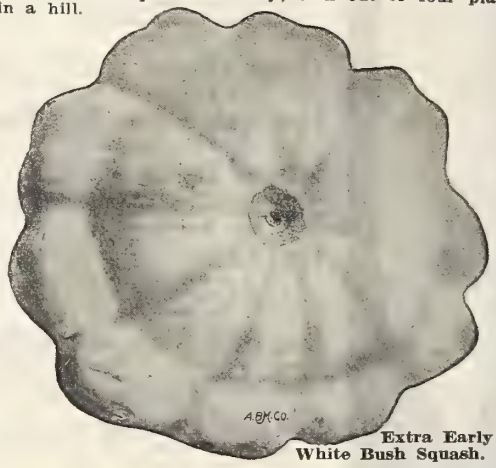
Large-Leaved French **Pkt., 5c; ¼ lb., 40c; lb., $1.25.**



Rhubarb.

Squash

1 oz. of bush sorts to 40 hills of lgs. seeded 15 hills.
2 lbs. of bush sorts to acre of lgs. seeded 3 to 4 to acre.
Squashes, like other vines, are partial to a light, dry, rich soil. Plant the running varieties in hills 10 feet apart each way; thin out to three plants in a hill. Cultivate frequently until the vines commence running, after which do not work the soil deep. Use Paris Green to destroy bugs, as with Cucumbers. Plant Bush Squashes in hills 5 feet apart each way; thin out to four plants in a hill.



Extra Early White Bush Squash.

Extra Early Jersey White Bush Scallop This is an improved strain of the Old White Bush. It sets fruit 10 days earlier; of a beautiful clear waxy white instead of the greenish white often seen. Very productive, and shows less ridge or scallop; containing a larger amount of solid flesh. **Pkt., 5c; ¼ lb., 35c; lb., $1.00.**

Summer Crookneck A beautiful bright yellow, bears all summer, and commands good prices. Very desirable for market and private use. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Bush Fordhook Squash In this new true bush type the plants can be grown much more closely together. The fruits are rather shorter and thicker than those of the running type, and have a smaller seed cavity. Our **Fordhook Squash** is about a week later than the Early White Bush, but is much sweeter and better flavored. Stored in a dry place they will keep in good condition until the following June. **Pkt., 5c; ¼ lb., 40c; lb., $1.25.**

Fall and Winter Varieties

Hubbard Well-known winter variety, with very hard, firm shell, fine grain, sweet and rich flavor, and excellent for table use. A splendid keeper. **Pkt., 5c; ¼ lb., 40c; lb., $1.25.**

Winter Crookneck Flesh red, of fine flavor and good keeper. **Pkt., 5c; ¼ lb., 15c; lb., 40c.**

Boston Marrow A fall and winter variety regarded very highly in the markets. Oval form, pointed, thin rind, fine grain; salmon-colored flesh, remarkably sweet and delicious. Keeps well in winter and will boil dry as a mealy potato. **Pkt., 5c; ¼ lb., 25c; lb., 75c.**

Spinach

1 oz. to 100 ft. of drill; 12 to 15 lbs. per acre.

One of the most staple vegetables of the American table, possessing highly valuable and health giving qualities; easily grown, requiring but little attention and in sections where the soil is rich, very profitable crops are produced.

Select a rich piece of ground, the richer the better; and for late spring and early summer use, sow the seed during February, March and April in drills one foot to 20 inches apart, one-half to one inch deep. When the plants are well started thin out to 4 to 6 inches apart, or sow the seew thinly and allow all the plants to stand.

For winter and early spring use, sow either in drills or broadcast during August, September and October. A top dressing of Nitrate of Soda will make a vast improvement in the earliness, size and quality of the crop.

American Bloomsdale Curled Savoy A very popular variety with market gardeners and truckers for fall sowing. Grows very large and in the opinion of some growers, superior to the imported strains. **¼ lb., 10c; lb., 25c; 100 lbs., $20.00.**

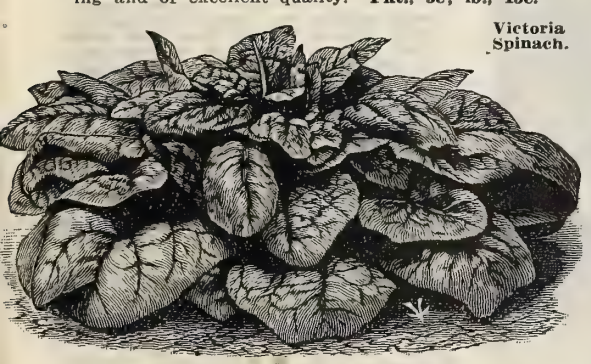
Imported Bloomsdale Curled Savoy Also known as Norfolk Savoy-Leaved. It produces a crop extremely early and thrives best in the cooler seasons, as warm weather causes it to run to seed. For this reason early spring and late fall plantings are most profitable. We grow large quantities of this variety in Europe, in sections best suited for its perfect development, and our product is greatly respected and continuously used by the largest and most successful truckers. **Pkt., 5c; lb., 20c; 100 lbs., $16.00.**

King of Denmark This new variety is undoubtedly the most valuable introduction of Spinach in recent years. Although the plants are ready for use almost as soon as the medium-early sorts, they remain in condition from a week to two weeks after all other varieties have gone to seed. The plants are of rapid growth, resemble the Long Season in type but the leaves are more crumpled or blistered and are of much darker green color. The leaves are thick, stand well after cutting and are of good quality. This variety will in a few years be one of the leading sorts as its distinctive qualities are sure to win favor for it from both home and market gardeners. **Pkt., 10c; lb., 50c; 10 lbs., $4.50; 100 lbs., $40.00.**

New Giant Market, or Mammoth Evergreen Of recent introduction, producing plants of large size and vigorous growth. The leaves are of the Bloomsdale type, of remarkably fine texture and of deepest green color, very hardy and slow to run to seed. **Pkt., 5c; ¼ lb., 15c; lb., 40c.**

Improved Curled Late Seeding Excellent for late spring planting, as it will stand longer than any other variety before running to seed. Has large, thick, fleshy leaves, produced abundantly. **Pkt., 5c; ¼ lb., 10c; lb., 35c.**

Victoria Midseason sort of low spreading habit, producing an abundance of very dark green leaves, slightly crumpled in the center. Late seeding and of excellent quality. **Pkt., 5c; lb., 15c.**



Victoria Spinach.

Nitrate of Soda At an attractive price—See page 32.

Market Boxes and Bushel Baskets
In Large or Small Quantities.

Mammoth Evergreen Spinach.

New Triumph This remarkable summer variety stands supreme in its ability to produce a very profitable crop during warm weather when all early varieties have either gone to seed or wilted in the heat. The foliage is dense and the plants are nearly double the size of the ordinary sorts. The very dark green leaves are thick, fleshy and of high quality. New Triumph has been greatly appreciated by all who have grown it and there is no doubt that after it has once been tried, its money-making possibilities will lead truckers and market gardeners to plant a quantity of it every year. **Pkt., 5c; lb., 25c; 100 lbs., $20.00.**

Swiss Chard, or Spinach Beet See page 6.

New Triumph Spinach.

Tomato

1 oz. to 2,000 plants; ¼ lb. per acre.

All our tomato seeds are grown from stocks, exclusively for seed purposes, by the originators, experienced growers and experts. We are fully convinced of the merit of all new varieties before placing them in our catalog, and therefore strongly recommend our strains as being absolutely reliable.

For early, the seed should be sown in hotbeds during February or the first week in March, in drills 5 inches apart and half an inch deep. Later sowing may be made until the last of April. When the plants are 3 or 4 inches high they should be set out 4 or 5 inches apart in another hotbed or cold frame, or removed into small pots, allowing a single plant to the pot. Expose to the air as much as possible to harden. Water freely at time of transplanting, and shelter from the sun a few days until the plants are established. Cultivate thoroughly as long as the vines will permit, but the last two or three workings should be very shallow or the crop may be badly injured, especially if the cultivator is run too near the plants.

Extra Early Varieties

Mann's Improved Advance This new acquisition supplies a long felt need for an extra early, large tomato of high quality, symmetrical shape, and a perfect tomato flavor. It is as early and hardy as Sparks' Earliana, producing a good crop of globular and distinctly smooth fruit. One of its chief characteristics is its freedom from acid, so commonly found in all other extra early sorts; its mild luscious flavor being equal to that of the highest quality main crop varieties. With **Manns' Improved Advance** the grower can produce a crop which will stand superior in appearance and quality, in competition with the other extra earlies and command the fancy prices of an early market. **Trial packets, 25c and 50c.**

Extra Early Advance This is a very suitable companion for the well-known Bonny Best, being fully 10 days earlier. The fruit grows in clusters of remarkable uniformity in size and shape. It is hardy and can be set out early, deep red, flesh very solid, and fine flavor. **Pkt., 15c; oz., 50c; ¼ lb., $1.75.**

Sparks' Earliana This is an extremely early variety and produces large clusters of fair-size fruits, which are very uniform in size and shape. It is hardy, and can be set out early. Color of flesh deep red, very solid and fine flavor. **Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.**

King of the Earlies A very productive and quite early variety, very similar to Sparks' Earliana; the vines are somewhat heavier and leaves more plentiful, which furnish great protection for the fruit, and for this reason it has become a favorite with many growers. **Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.50.**

IXL Extra Early For description see King of the Earlies. **Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.**

Second Early and Main Crop Varieties

Bonny Best This new sort has already become a favorite among large growers for early market. It is earlier than Chalk's Early Jewel, and within two or three days as early as Earliana. Very prolific, with liberal foliage to protect the fruit from the sun. The beautiful scarlet-red fruit is set in clusters of 5 or more. Its great characteristic is that it ripens each setting of fruit nearly all at once, and ripens evenly all over up to the stem. **Pkt., 10c; oz., 35c; ¼ lb., $1.00; lb., $3.50.**

Chalk's Early Jewel Ripens 10 days later than Sparks' Earliana, but more desirable for home use, as fruits are thicker through and more solid, comparing favorably with the later maturing sorts. Color bright scarlet and quality very best. **Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.**

John Baer A second early variety, maturing 10 days later than the King of the Earlies. Fruit is borne in clusters of 3, of bright red color, averaging 3 inches across and 2¾ inches from stem to blossom end. **Pkt., 10c; oz., 30c; ¼ lb., $1.00; lb., $3.50.**

Bonny Best Tomatoes.

Wisdom Tomato Medium early, perfectly smooth, deep red and uniform. **Pkt., 10c; oz., 35c; ¼ lb., $1.15; lb., $4.00.**

Livingston's Globe One of the main varieties grown by the leading Tomato growers in Florida. It is of beautiful globe shape, very deep through from blossom end to stem, which permits of a greater number of slices being taken than with the flat fruited sorts. Among the very first to ripen, although of large size; very smooth, firm fleshed, few seeds, ripens evenly; color a beautiful glossy rose-tinged purple. A good cropper and one of the best for greenhouse or first crop on stake or trellis. **Pkt., 10c; oz., 35c; ¼ lb., $1.00; lb., $3.50.**

Coreless A very large, uniformly globe-shaped, bright scarlet, main crop or late tomato. Fruits very solid, almost entirely free from green core and with little or no depression at stem end, making the variety especially desirable for slicing, canning and shipping. Vines very vigorous, blight resistant and productive. **Pkt., 10c; ¼ lb., $1.00.**

Livingston's Beauty A decided favorite for home market or shipping, being early, hardy, a strong grower, productive, large, always smooth, of perfect shape and excellent quality. Color is very glossy crimson, with a tinge of purple. Grows in clusters of 4 to 6 large fruits, retaining its large size until late in the season. Ripens early, and is entirely free from ribbed or elongated fruits. **Pkt., 10c; ¼ lb., 90c; lb., $3.00.**

Livingston's Early Perfection An improved Acme with a red skin, produces large fruit until the close of the season. Invariably smooth and of handsome blood-red color. Some canners prefer it to all others, especially those who can the tomatoes whole. It usually ripens 10 days ahead of Stone. **Pkt., 10c; oz., 35c; ¼ lb., 90c; lb., $3.00.**

Tomato - Continued

Maryland Pride.

Kelley's Red The plants grow vigorously, and are very productive. The fruit is very large, slightly flattened, bright scarlet, smooth, ripening evenly to the stem without a crack, twenty tons having been grown to the acre. **Pkt., 10c; oz., 25c; ¼ lb., 75c; lb., $2.50.**

Matchless The vines are of strong, vigorous growth, well set with fruit, the foliage is very rich, dark green color. They are entirely free from core, of a very rich cardinal red color, and are not liable to crack from wet weather. The fruits are of the largest size, and this is maintained throughout the season, the healthy growth of foliage continuing until killed by frost. **Oz., 30c; ¼ lb., 90c; lb., $3.00.**

Maryland Pride Since our introduction of it in 1905 it has been grown with great success by canners and market gardeners, who pronounce it "the very best second early and main crop Tomato they have ever grown." The fruit is a beautiful bright red color, magnificent size and handsome, smooth shape. The vines grow vigorously, and produce abundantly until killed by frost. **Pkt., 10c; oz., 30c; ¼ lb., 90c; lb., $3.00.**

Enormous So named on account of the large size of Tomatoes, which are very solid and smooth. Quality good. **Pkt., 10c; oz., 30c; ¼ lb., $1.00; lb., $3.50.**

Greater Baltimore Large, smooth, solid, bright scarlet; second early Tomato; a prolific bearer and fine shipper. **Pkt., 10c; oz., 40c; ¼ lb., 90c; lb., $3.00.**

Favorite, or Queen Large size, ripens evenly and early, very prolific, red color; flesh solid and good flavor. **Pkt., 10c; ¼ lb., 60c; lb., $2.00.**

New Stone This variety has attained great favor with canners and market gardeners everywhere. Its solidity and carrying qualities are remarkable. Its color is a desirable red; in shape perfectly smooth, and thicker from stem to blossom end than most varieties, making it most handsome and salable. **Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

B. B. Tomato For description see New Stone. **Pkt., 10c; oz., 25c; ¼ lb., 60c; lb., $2.00.**

Livingston's Paragon Color of skin deep red. Flesh solid and highly flavored. It is larger than several of the standard varieties, and grows large fruit up till frost. **Oz., 25c; ¼ lb., 60c; lb., $2.00.**

Success The vines are of strong, vigorous growth, with abundant foliage. The fruits, set in clusters, average three inches in diameter and two to two and a half inches through from stem to blossom end. Color brightest scarlet; perfectly smooth; very meaty; of fine flavor. **Pkt., 10c; ¼ lb., 90c; lb., $3.00.**

Ponderosa The largest purple fruited Tomato in cultivation; very solid and of finest quality. **Pkt., 10c; oz., 40c; ¼ lb., $1.25.**

Buckeye State, or Duke of York One of the largest; fruits in immense clusters; solid and meaty. Color similar to Beauty, but darker and richer. **Pkt., 10c; ¼ lb., $1.00; lb., $3.50.**

Red Rock By close comparison of this new Tomato we find several strong points in its favor; extreme hardiness, size of fruit and productiveness. Compared with Livingston's New Stone, they yield one-third more Tomatoes of a deeper red; in beauty of coloring and symmetry of form it is indeed without a peer. The vines are of strong, vigorous growth, with very rich, dark green foliage. The rich cardinal red fruit has very tough skin, and is not liable to crack from wet weather. **Oz., 30c; ¼ lb., 90c; lb., $3.00.**

Preserving Tomatoes

The following small-fruited varieties are used for making preserves, and are also quite ornamental while growing in the garden:

Pear-Shaped Red
Pear-Shaped Yellow
Yellow Plum

} **Pkt., 10c; oz., 30c; ¼ lb., $1.00.**

Red Rock.

Turnip

1 oz. to 150 ft, of drill; 1 lb. per acre.

Being primarily a cool weather vegetable, turnips thrive best when planted in early spring or in the fall. For **spring crop sow the seed early in April, while for fall** and winter use, plantings should be made from July to August. Sow in rows not less than 18 inches apart and one-half to three-quarters of an inch deep. A very popular method, however, is to broadcast the seed between rows of corn or in the cultivated orchard. Proper control of root maggots is effected by rotation of crops, the use of commercial fertilizers instead of manure and the application of Mag-o-tite or other carbolic acid emulsion.

Extra Early Purple Top Milan A white variety, purple-top and strap leaf. This, with the White Milan, is the earliest of all turnips. Remains in good condition a long time. **Oz., 10c; ¼ lb., 30c; lb., $1.00.**

Extra Early White Milan Similar to above, except it is pure ivory white in color, and about one week earlier. **Oz., 10c; ¼ lb., 30c; lb., $1.00.**

White Early Flat Dutch
A standard variety, good size, pure white; small top, few leaves and very sweet. **¼ lb., 15c; lb., 40c.**

Purple Top Strap Leaf
The popular variety, either for family or market use; large size, white, purple above ground, flesh fine grained. **¼ lb., 15c; lb., 50c.**

Neckless Purple Top Rutabaga.

Purple Top White Globe Turnip.

Yellow Globe Orange Jelly One of the best for general crop; flesh firm and sweet; grows to a large size; splendid for table or stock, and keeps well until late in spring. **¼ lb., 20c; lb., 50c.**

Purple Top White Globe Also known as Red Top White Globe. This excellent turnip is decidedly the most popular variety and more extensively grown than any other. The roots are globular, very handsome and of superior quality; either for table use or stock feeding purposes. It is a heavy producer, early, of rapid growth, and one of the best for winter storage. **¼ lb., 15c; lb., 50c.**

Cow Horn Very heavy cropper, a quick grower, best for stockmen. **¼ lb., 20c; lb., 50c.**

Seven Top This variety is principally planted in the South for the green tops which are produced very abundantly. **¼ lb., 20c; lb., 50c.**

Rutabagas or Swedes

Rutabagas require about four weeks longer to mature than ordinary varieties of turnips, but are more solid, of firmer flesh and therefore keep later into the spring. They are for this reason more desirable for storage, while turnips are better adapted for the early market. Sow during July either in drills or broadcast.

Neckless Purple Top Our superb strain of this excellent variety has become a favorite because of its hardy and productive nature. The flesh is sweet and solid, excellent for table use or stock feeding. **¼ lb., 25c; lb., 75c.**

Manns' High Grade Fertilizer

When Thinking of Fertilizer, Do Not Overlook the High Value of Clovers, Cow Peas, Soy Beans, Vetches, Etc., For Plowing Under as Green Manure.

Bone Meal (Extra Fine) An excellent fertilizer especially recommended for lawns, rose bushes, grape vines, and deep rooted shrubbery, where it is desired to furnish the plants with a perfectly safe, slow acting but continuous supply of nourishment. Florists and nurserymen use large quantities of our bone meal very successfully. **2 lbs., 15c; 10 lbs., 65c: 50 lbs., $2.50; 167 lb. bag, $4.75. (Add transportation charges). Special price on large quantities.**

Manns' Vegetable and Flower Plant Foods This class of fertilizer can be supplied in a number of combinations, each having a guaranteed analysis which will prove most helpful to the crop for which it is intended. Our volume of business in vegetable fertilizers is rapidly increasing, because our customers have found our stock to be strictly first class, dependable, low priced, and productive of the best crops in competition with other brands.

2-10- 2	$2.70 per 167-lb. bag;	$27.00 per ton
5- 8- 0	3.60 per 167-lb. bag;	36.00 per ton
4- 8- 4	3.70 per 167-lb. bag;	37.00 per ton
4- 8-10	4.50 per 167-lb. bag;	45.00 per ton

Sheep Manure One of the most popular fertilizers for lawns, garden crops and potted plants; of high analysis, thoroughly dried and pulverized, giving lasting results. **For top dressing of lawn, use 1 ton per acre, applying in fall or early spring. For garden crops use 1 to 2 tons per acre, turning half the quantity under and top dressing the remainder. Clean to handle and very effective. 5 lbs., 25c; 50 lbs., $1.75; 100 lb. bag, $2.75. Special price in quantities.**

Land Plaster Useful as a medium for retaining moisture and the fluids and ammoniates of manure with which it is often mixed. Often applied on sandy soils, which do not retain moisture readily. Also used for dipping potatoes after they have been cut for seed, sealing the cuts as a protection and also supplying nourishment. Mixed with Paris Green proves very effective in destroying plant vermin. An excellent lawn dressing. **200 lb. bag, $2.25. Special price in quantities.**

Nitrate of Soda A fertilizer for all crops. It is highly soluble, quick in action and hastens the maturity of crops fully two weeks. Will not take the place of other fertilizer but supplies the growing crop with an abundance of nitrogen which greatly assists the plants to make use of other nourishment already in the soil. **Lb., 8c; 10 lbs., 60c; 100 lbs., $4.00; 200 lb. bag, $6.50. Special price on quantities. (Add transportation charges).**

Tobacco Dust An insecticide and very efficient fertilizer. See Insecticides.

Plant Tablets A scientific, odorless renovator for potted plants. **10c and 25c sizes.**

MANNS' VEGETABLE PLANTS AND ROOTS

We are large producers of the following plants and can fill orders daily with fresh, strong, stocky plants grown on our trial grounds from the best strains of seed. Varieties not grown by ourselves are contracted for with the most reliable and trustworthy plant growers in this section, who, we know from experience, produce only the best plants. We shall be pleased to quote special prices on lots of 5,000 or more. If sold out of any variety ordered, we shall take the liberty to substitute a nearly similar kind unless otherwise instructed.

CABBAGE PLANTS. Frame-grown and transplanted. (Ready in March and April.)
Early Jersey Wakefield. Pointed head.
Charleston Large Wakefield. Pointed head.
Copenhagen Market. Round head.
Eureka First Early. Flat head.
All Head. or New Early. Flat head.
Postpaid, per 100, 75c; 1,000, $5.00.

CABBAGE PLANTS. Field-grown, strong and stocky. (Ready May and June.)
All Head Early. Flat head.
Early Flat Dutch. Flat head.
Volga. Larger round head.
Early Summer. Flat head.
Succession. Flat head.
Improved Lupton. Flat head.
Large Late Flat Dutch. Flat head.
Imperial Drumhead Savoy. Flat head.
Postpaid, per 100, 50c; 1,000, $4.00.

CABBAGE PLANTS. For late planting. (Ready September and October.)
Extra Early Jersey Wakefield. Pointed head.
Charleston, or Large Wakefield. Pointed head.
All Head, or New Early. Flat head.
Postpaid, per 100, 50c; 1,000, $3.00.

CAULIFLOWER PLANTS. (Ready in March, July and August.)
Postpaid, per doz., 25c; 100, $1.50; 1,000, $12.00.

BORECOLE PLANTS. (Ready in May and June.)
Hardy Winter.
Dwarf Green Scotch.
Postpaid, per 100, 75c; 1,000, $4.50.

CELERY PLANTS. (Ready in July.)
American Self-Blanching.
Columbia.
Giant Pascal.
Winter Queen.
Postpaid, per 100, $1.10; 1,000, $6.00.

CELERY PLANTS. Grown from French seed.
Golden Self-Blanching.
Per 100, $1.25; 1,000, $8.00.

EGG PLANTS. (Ready in May and June.)
Mammoth Imp. Purple.
New York Smooth Stem.
Postpaid, per doz., 25c; 100, $1.50. By express, 1,000, $10.00.

LETTUCE PLANTS. (Ready in March, April, September and October.)
Postpaid, per 100, 50c. By express, 1,000, $4.00.

PEPPER PLANTS. (Ready in May and June.)
Ruby Giant.
Chinese Giant.
Perfection.
Postpaid, per doz., 25c; 100, $1.50. By express, 1,000, $10.00.

PEPPER PLANTS.
Ruby King.
Bull Nose and Needle.
Postpaid, per doz., 25c. By express, 1,000, $8.50.

SWEET POTATO PLANTS. (Ready May and June.)
Up Rivers.
Big Stems.
Yellow Jerseys.
Postpaid, per 100, $1.00. By expess, 1,000, $7.00.

TOMATO PLANTS. Hotbed grown. (Ready in April and May.)
King of the Earlies.
I. X. L.
Bonny Best and Ponderosa.
Maryland Pride.
Postpaid, per doz., 20c; 100, 75c. By express, 1,000, $5.00.

TOMATO PLANTS. Field-grown plants. (Ready June and July.)
Maryland Pride.
Red Rock.
New Stone.
Greater Baltimore.
By express, per 100, 60c; 1,000, $4.00; 5,000, $18.00.

ASPARAGUS ROOTS. See page 2.

HORSERADISH ROOTS. (Ready till May.)
Large Nuremburg.
Postpaid, per doz., 25c; 100, $1.25.

RHUBARB ROOTS. (Ready November till May.)
Postpaid, each, 15c; doz., $1.50; 100, $9.00.

Strawberry Plants

We can supply fresh, strong, healthy plants of all the leading varieties in any quantity. Following is a partial list of the most popular sorts for planting in the vicinity of Baltimore.

Mitchell's Early. Extra early.
Lady Corneille. Midseason.
Gandy. Late, very productive.

$1.50 per 100; $9.00 per 1,000. Postage or expressage extra.

Everbearing

PROGRESSIVE. Undoubtedly the best everbearing variety in cultivation, producing a large crop of high quality fruit the same year they are set out. The main crop ripens in the fall.

$2.50 per 100, 1,000, $15.00. Postage or expressage extra.

Get Our Prices on Berry Boxes

MANNS' SUPERIOR FLOWER SEEDS

"Flowers blossom and fade rapidly; but the good they do during their short life's span cannot be measured by words." **Benj. Franklin.**

Our constant aim is to supply our customers with the very best domestic and imported strains obtainable. We spare no expense in our efforts to maintain the highest standard of quality. Our list contains those varieties which are most popular because of their beauty, usefulness, and ease of cultivation.

Annuals are those which attain full growth, bloom and die the same year, and are raised from seed exclusively.

Biennials attain full growth, bloom and die the second year from the planting of seed.

Perennials produce plants the first year, which with a few exceptions do not flower until the second year from planting of seed, after which they bloom every year and last several years.

The class to which each variety belongs is indicated as follows: (A) for Annuals; (B) for Biennials; (P) for Perennials.

AGERATUM (A)
Splendid for bedding or pot culture, covered from June until frost with a mass of very attractive flowers of a tufted appearance. Very effective when contrasted with geraniums. **Large-flowered White, large-flowered Blue or Mixed., pkt., 10c; ¼ oz., 25c.**

ALYSSUM (A)
Sweet Alyssum. Little Gem. Very popular border flower, coming into bloom six weeks after planting seed and requiring the least attention of all flowers. Very erect and dwarf, its white flowers greatly enhancing the beauty of any bed or border. Height 4 inches. **Pkt., 10c; ¼ oz., 15c; oz., 50c.**

AMARANTHUS (A)
Very useful in borders of tall plants, among shrubs, or in centers of large beds. One type has large feathery plumes or sprays of rich crimson coloring while the other is grown exclusively for the brilliant-colored leaves.

CAUDATUS. (Love Lies Bleeding.) Plants of erect growth three to four feet high, producing numerous feather sprays of rich crimson color. **Pkt., 5c; oz., 15c.**

SALICIFOLIUS. (Willow-Leaved or Fountain Plant.) Grows two to three feet high, with long hanging flower heads and foliage of a deep purple coloring. **Pkt., 10c; ¼ oz., 45c.**

SPLENDENS. (Rainbow Plant.) Beautiful variegated foliage with large crimson flower heads. **Pkt., 10c; ¼ oz., 25c.**

TRICOLOR. (Joseph's Coat.) Similar to Splendens, having a single erect stalk of brilliantly-colored foliage. **Pkt., 5c; ¼ oz., 15c.**

ANTIRRHINUM or Snapdragon (P)
This border and bedding plant of long blooming season is now one of the best perennials suitable for flowering as an annual. The long showy spikes of curiously-shaped tubular flowers with spreading lobes and finely marked throats are fragrant as well as brilliantly-colored. They are very desirable for cutting as the blooms are borne well above the dark glossy leaves and keep fresh for a long time.

For flowers the first season outdoors, sow seed very early under glass and transplant to open border as soon as the ground is warm and dry, in rich loamy soil in a sunny situation, setting one foot apart each way and giving them plenty of water: or sow the seed in August or September and cover the plants with a mulch on approach of cold weather. These fall-sown plants may be transplanted into pots and flowered, and in this case give them the same temperature and treatment as geraniums and carnations. Tender perennial, often treated as an annual or biennial, attains a growth of one and one-half to two feet high. Special mixtures of the very best delicate colors. **Tall mixed, pkt., 5c; ¼ oz., 20c; oz., 50c. Semi-dwarf mixed, pkt., 5c; ¼ oz., 20c; oz., 50c. Separate colors, pkt., 10c; oz., $1.00.**

Antirrhinum.

Aquilegia or Columbine (P)

As a cut flower the long spurred Aquilegias are the daintiest of our outdoor grown flowers. Very hardy, blooming profusely early in the season and remaining in bloom for a considerable period. **Pkt., 10c; ¼ oz., 50c.**

Asters (A)

Very popular because of their beauty and ease of culture. The varieties listed represent the finest Asters of the early, midseason and late types and will give a profusion of bloom from July to late October. Asters require good rich soil and during the growing period should be well supplied with water.

QUEEN OF THE MARKET. Branching habit, 1 ft. high, large flowers borne on long stems, blooming in July. **Mixed colors, pkt., 5c and 10c; ¼ oz., 25c; oz., 75c.**

GIANT COMET. Very distinctive, the outer petals being broad, flat and reflexed, while the center of the flower has a feathery appearance. Follows Queen of the Market in season and grows 12 to 24 inches high. Deep scarlet dark blue, light blu, delicate yellow, snow white and rose **Pkt., 10c; ¼ oz., 50c; oz., $1.50. Mixed, ¼ oz., 25c; oz., 75c**

ASTER UNICUM. Brilliant rose, salmon-rose, rosy-lilac. **Pkt.,10c; ¼ oz., 75c.**

VICTORIA. Compact plants with very large and double flowers. Good for bedding or cutting. Free flowering. **Mixed, pkt., 10c; ¼ oz., 40c.**

CREGO. Flowers of immense size, 4 to 5 inches in diameter borne on very long stems. Plants are of strong branching growth, 2 to 2½ feet high. **Separate colors, pkt., 10c; ¼ oz., 50c. Mixed, pkt., 10c; ¼ oz., 30c.**

Bellis Perennis - Double Daisy (P)

Favorite perennials producing their handsome double flowers in the spring. Rich soil and a cool situation suit them best. Extra double large flowered rose or white. **Pkt., 10c; ¼ oz., $1.50.**

Improved Longfellow type, large flowered. **Pkt., 10c; ¼ oz., $2.00.**

Campanula—Canterbury Bells.

Carnations (P)

With protection these well known half-hardy perennials can be wintered over outdoors. When planted early they will begin to bloom in about four months and continue until late in the fall. For winter blooming they should be cut back by removing the flower shoots early in the fall and transplanted to pots and kept in a cool room.

VIENNA. Early flowering, extra double dwarf mixed. **Pkt., 10c; ¼ oz., 60c.**

PERPETUAL (Famous Chabaud type). Choicest mixture. **Pkt., 10c; ¼ oz., 75c.**

PERPETUAL (Very popular Marguerite type). Half dwarf mixed. **Pkt., 10c; ¼ oz., 60c.**

PERPETUAL (Marguerite). Pure white or Pure Pink. Pkt., 10c; ¼ oz., 75c.

Celosia or Cockscomb (A)

STANDARD STRAIN. Extra fine mixed. **Pkt., 10c; ¼ oz., 45c.**

PLUMOSA. Feathered varieties mixed. **Pkt., 5c; ¼ oz., 15c.**

EMPRESS. Dark-leaved, bright crimson. **Pkt., 10c; ¼ oz., $1.25.**

GLASGOW PRIZE. Pkt., 10c; ¼ oz., $1.70.

CHILDSII. (Chinese Woolflower). **Pkt., 10c.**

Giant Comet Aster.

Balsam or Lady Slipper (A)

An easy growing annual of quick growth, producing numerous flowers resembling tiny roses. **Splendid double mixed, pkt., 5c and 10c; oz., 20c.**

Coreopsis - Calliopsis (A)

Very handsome and showy plants with numerous flowers of brilliant colors excellent for bouquets. Thrive well in any soil. **Pkt., 10c; ¼ oz., 25c.**

Campanula-Canterbury Bells (B)

An old-fashioned favorite, stately, showy, and easily grown, hardy biennial. **Single, pkt., 10c; ¼ oz., 15c. Double, pkt., 10c; ¼ oz., 45c.**

Candytuft (A)

This hardy annual is universally known and its clusters of small flowers are very beautiful and useful for cutting and borders.

EMPRESS. Large spikes of the purest white, erect growth. **Pkt., 5c and 10c; oz., 20c.**

FINEST MIXTURE OF ALL COLORS. Pkt., 5c and 10c; oz., 40c.

Celosia—Cockscomb.

Chrysanthemum—Bridal Robe.

Centaurea (A)

CENTAUREA CYANUS or BACHELOR'S BUTTON or CORN FLOWER. Charming old-fashioned flowers, requiring little or no care and flowering within eight weeks from planting of seed. Free and uninterupted in its flowering habit, reseeding itself year after year. Useful as a cut flower as well as a garden decoration. Double blue or double mixed. **Pkt., 5c and 10c; ¼ oz., 15c.**

CENTAUREA GYMNOCARPA or DUSTY MILLER. One foot foliage, finely cut of silvery gray color, used for bedding. **Pkt., 10c; ¼ oz., 15c.**

CENTAUREA MOSCHATA or SWEET SULTAN. Beautiful, sweet scented, artistic shaped flowers borne on long stems, when cut will last for several days. White. **Pkt., 10c; ¼ oz., 25c.**

Chrysanthemum (P and A)

The annual Chrysanthemums are free-blooming, easily grown plants, having large flowers in a variety of brilliant colors, fine for cutting.

CARINATUM, The Sultan. Double, brilliant scarlet.
Aureum. Large double yellow.
Dunnetti. Free flowering double white.
Mixed. Finest double hybrids.
Pkt., 5c and 10c; ¼ oz., 25c; oz., 75c.

Perennial Chrysanthemums are grown chiefly from divisions of roots of the Japanese varieties and cultivated by florists for late fall and winter cut flowers. The following perennials however, can be very satisfactorily grown from seed, producing beautiful white, double flowers in abundance.

INODORUM PLENISSIMUM. Double white. **Pkt., 10c; ¼ oz., 25c.**

BRIDAL ROBE. Extra double. **Pkt., 10c; ¼ oz., 50c.**

Cineraria (P—Greenhouse)

Among the most ornamental plants that can be grown for hot-house or conservatory decoration, producing large heads of brilliant flowers in all shades of blue, purple and red. One of the most beautiful potted plants.

HYBRIDA. Extra large flowered, first quality mixture. Pkt., 50c; ¼ oz., $7.00

MARITIMA. Entirely different from the popular Cineraria, being most useful for bedding. Silver-leaved; also called Dusty Miller. **Pkt., 5c; ¼ oz., 15c.**

Clarkia (A)

Very pretty, profuse flowering annuals, much used for edging. They grow from nine to eighteen inches high, producing mostly red or white flowers. Useful for hanging baskets. **Pkt., 5c; ¼ oz., 15c.**

CLEMATIS. See page 43.

Coleus (P—Tender)

An attractive foliage plant for ornamental bedding. Finest hybrid mixture. **Pkt., 25c; ¼ oz., $2.50.**

Cosmos (A)

One of the most satisfactory hardy annuals, flowering in late summer. Fine for cutting and easily grown. Can be sown anywhere and transplanted. Grows 4 to 6 feet high. Mammoth large flowered. Mixed and early flowering mixed, pkt., 5c and 10c; ¼ oz., 20c. New double-crested mixed, pkt., 10c; ¼ oz., 60c.

Dahlia (P Half Hardy) Roots, see page 47.

Seed should be planted very early indoors and the plants transplanted in May or June. Most of the plants will bloom the same year. The roots should be dug before freezing weather and stored in sand in a cool place.

GIANT FLOWERED. Choice mixed. **Pkt., 25c; ¼ oz., $3.00.**

EXTRA DOUBLE. Large flowered choice mixed. **Pkt., 10c; ¼ oz., 70c.**

CACTUS HYBRIDS. Extra double mixed. **Pkt., 25c; ¼ oz., $2.50.**

Datura (A)

Large branching plants producing very large handsome, double or single, trumpet-shaped blossoms of exquisite fragrance. Excellent for late summer and autumn flowering. Mixed colors. **Pkt., 10c; ¼ oz., 20c.**

Delphinium or Hardy Larkspur (P)

Splendid border perennial of vigorous growth, strikingly effective as a background for borders and for planting among shrubbery. The blooming season is very long and the beautiful irregular flowers are clustered on long spikes 3 to 5 feet high. Double and semi-double varieties mixed. **Pkt., 10c; ¼ oz., $1.50.**

Dianthus or Pinks (B)

These very beautiful and popular biennials flower freely the first year from seed, and in most locations they are quite hardy and produce larger flowers the second year.

CHINENSIS. Extra double flowered in choicest mixture. **Pkt., 5c; ¼ oz., 15c.**

HEDDEWIGII. Fringed single, very large flowers. **Pkt., 5c; ¼ oz., 25c.**

HEDDEWIGII PLUMARIUS Double and semi-double mixed. **Pkt., 10c; ¼ oz., 75c.**

FLORIST'S PERPETUAL. Large clusters, fragrant, very useful for cut flowers. Double mixed. **Pkt., 10c; ¼ oz., 30c.**

Digitalis or Foxglove (P)

Handsome and highly ornamental hardy perennial plant of stately growth, very effective among shrubbery, thriving best in half-shady places. Three feet high. Finest mixed. **Pkt., 10c; ¼ oz., 25c.**

Double Dianthus.

Gaillardia Grandiflora (P)

A very showy flower easily raised from seed. Should be sown early to produce large plants which will bloom profusely the first year. Very beautiful in beds or borders and very useful for cutting. Extra fine mixed. **Pkt., 10c; ¼ oz., 55c.**

Globe Amaranth - Gomphrena (A)

Similar in type to Bachelor's Button but having flowers of perfect globe shape. Mixed colors. **Pkt., 5c; ¼ oz., 15c.**

Helichrysum - Everlasting Flower (A)

Also called Immortelles and Strawflowers. The **Helichrysum** is the most beautiful of all the everlastings. The plants grow from two to three feet high and are literally covered with fine, large, double flowers in a variety of brilliant colors. The blooms should be cut as soon as they are open, tied in small bunches and dried slowly in a dark cool place, hanging the flowers downward to keep the stems straight.
MONSTROSUM. Double, first quality, mixed. **Pkt., 5c and 10c; ¼ oz., 15c; oz., 50c.**

Heliotrope (P—Half Hardy)

The delightful fragrance and duration of bloom of this flower makes it a garden favorite. Can be grown from seed as easily as Verbenas, and should be started early so that large plants may be had for bedding out. The colors of the blossoms range from white through all shades of violet to the deepest purple.
NEW HYBRID. Large flowered mixed. **Pkt., 10c; ¼ oz., 75c.**

Hesperis Matronalis - Sweet Rocket (P)

Hollyhocks.

Old-fashioned garden plants growing 2 to 3 ft. high, bearing spikes of white or purple flowers. Excellent for planting in a border or among shrubbery. **Pkt., 5c; ¼ oz., 15c; oz., 45c.**

Gaillardia.

Hollyhock (P)

Tall old-fashioned garden perennial of great beauty, very useful as a background to a flower garden. The large, richly colored blossoms are crowded around the strong flowering stalks. Seed planted in open ground in June or July will furnish blooms the following summer.
DOUBLE MIXED. Extra fine quality. **Pkt., 10c; ¼ oz., 60c.**
SINGLE MIXED. Large, very artistic blooms. **Pkt., 10c; ¼ oz., 35c.**

Kochia - Summer Cypress (A)

Quick growing hedge plant about two and one-half feet high. Very symmetrical and attractive, the bushes taking on a distinctive red tinge late in the summer; for this reason often called Mexican Fire Bush. **Pkt., 5c; oz., 15c.**

Larkspur (A)

One of the best known of garden flowers and if planted in April will produce flowering plants by the first of July and continue to bloom until frost.
IMPERIAL DOUBLE MIXED. Pkt., 10c; ¼ oz., 15c.
For Perennial Larkspur see Delphinium.

Lantana (P—Half Hardy)

One of the most desirable greenhouse or bedding plants, constantly in bloom, somewhat resembling Verbenas; 2 to 3 feet. Mixed colors. **Pkt., 5c; oz., 15c.**

Lobelia (P)

ERINUS COMPACTA. This charming variety forms compact bushes about 6 inches high and are covered with bloom throughout the season. Highly desirable for edging and garden decoration as well as for pot culture. They flower the first season from seed. **Pkt., 10c; ¼ oz., 75c.**

Lupinus (A)

Free-flowering, easily grown annuals with long graceful spikes of richly colored, pea-shaped flowers. Prefers a little shade. 2 feet high.
ANNUAL MIXED. All colors. **Pkt., 5c; oz., 15c.**
PERENNIAL MIXED. Blooms in May and June. 3 feet. **Pkt., 10c; oz., 50c.**

Lychnis (P)

Handsome hardy perennial plants of easy culture, for massing in beds and borders; blooming the first year if sown early. Very popular by reason of their beauty and ease of culture. Also called **Maltese Cross, Jerusalem Cross, Lamp Flower** and **Burning Star.** 1 foot high.
CHALCEDONICA. Scarlet or white. **Pkt., 10c; ¼ oz., 35c.**
HAAGEANA HYBRIDA. Brilliant colors mixed. **Pkt., 10c; ¼ oz., 75c.**
VISCARIA SPLENDENS (Ragged Robin). Bright rose-red, very showy. **Pkt., 5c; ¼ oz., 15c.**

Heliotrope.

Marigold (A)

The African and French Marigolds are old favorite free-flowering annuals of easy culture, extremely effective and well adapted for large beds. Thrive best in a light soil fully exposed to the sun. The flowers of the French type are smaller than the African but are marked and spotted with varied shades of red and orange. The African are very large, double and in solid colors.

AFRICAN. Double, extra mixed, first quality. **Pkt., 5c; ¼ oz., 15c.**
FRENCH. Dwarf double mixed. **Pkt., 5c; ¼ oz., 15c.**

Marvel of Peru - Four O'Clock (A)

Large showy fragrant flowers, blooming the entire season. Succeed well in any ordinary garden soil in a sunny location. Mixed. **Pkt.,5c; oz., 20c.**

Mesembryanthemum (A)

CRYSTALLINUM or ICE PLANT. Dwarf trailing annual plants. Flowers white, prized for its distinctive icy foliage. **Pkt., 5c; ¼ oz., 10c.**

Mignonette (A)

Well known fragrant bedding or potting plant. Sowings made in April and again in July will result in a succession of bloom from early summer until frost.

STANDARD. Large flowering, sweet scented. **Pkt., 5c; ¼ oz., 15c.**
MACHET GIANT. Large spikes, very fragrant. **Pkt., 10c; ¼ oz., 15c.**

Petunias.

Mimulus (P—Half Hardy)

Showy, profuse flowering plants, fine for greenhouse or moist shady situations, blooming the first year from seed if sown early; 1 foot high. Often used for hanging baskets or window boxes.

MOSCHATUS, or MUSK PLANT. Fragrant foliage. Seed extremely small. **Pkt., 10c; ⅛ oz., $5.00.**

Myosotis Forget-Me-Not (P)

These dainty and greatly admired spring flowers are especially effective when grown in masses. They are hardy if given slight protection through the winter.

ALPESTRIS. Blue; 9 inches; flowering in April. **Pkt., 10c; ¼ oz., 40c.**
PALUSTRIS. Blue, everblooming; flowers from May until frost. **Pkt., 10c; ¼ oz., 70c.**

Nasturtiums.

Nasturtium (A)

TOM THUMB. The very popular dwarf or bedding variety, producing very showy large flowers. Our mixture contains all the newest hybrids as well as the distinct old varieties, all in proportion to assure a marvelous display of colors, ranging from cream-white to the very darkest red. **Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c.**
SPENCER. Choice mixed, very brilliant, in all shades of yellow, red and purple. **Pkt., 5c; oz., 15c; ¼ lb., 40c; lb., $1.25.**
For Tall or Climbing Nasturtiums see Vines.
LACINIATUM. Dark leaved, very showy, mixed. **Pkt., 5c; oz., 10c; ¼ lb., 25c; lb., 75c.**

Nicotiana (A)

AFFINIS. Gives a continuous display of flowers through the summer and autumn; plant 2 to 3 feet high. The blooms are white, sweet scented and measure 3 inches in diameter. **Pkt., 5c; ¼ oz., 10c.**

Nigella or Love-In-a-Mist (A)

Free-flowering plant, 1 foot high, producing curious flowers surrounded by the finely cut foliage. Easily grown; useful for cutting.
DOUBLE BLUE. Pkt., 5c; ¼ oz., 10c.

Pentstemon (P)

HARTWEGII. Beautiful bell-shaped flowers on 18 inch spikes. **Pkt., 10c; ¼ oz., $1.00.**

Pansies (B)

These very popular and beautiful flowers may be sown in April or May for summer flowering or in August for early spring blooming. They thrive best in an open exposure.

BUGNOT'S GIANT. Flowers of enormous size, nearly circular in form and in a great variety of the most rare and handsome colors. Each petal has a distinct deeply-colored blotch. **Pkt., 10c; ¼ oz., $1.00.**
TRIMARDEAU GIANT. Plants of strong robust growth, producing very large, beautifully colored blooms. Fine mixture. **Pkt., 10c; ¼ oz., 60c.**
ADONIS. Splendid Trimardeau variety; bright blue with white center. **Pkt., 10c; ¼ oz., 75c.**
LORD BEACONSFIELD. Deep purple violet, shading to white; a giant Trimardeau sort. **Pkt., 10c; ¼ oz., 75c.**
FAIRY QUEEN. Bright blue, white margined, very beautiful. **Pkt., 10c; ¼ oz., 75c.**
GOLDEN YELLOW, PURPLE STAINED. Very effective in pots or beds; large well formed blooms. **Pkt., 10c.**
MANNS' LARGE PARISIAN MIXED. Very large and containing a wide range of very fancy colors. Vigorous growth, the best sort for florists. **Pkt., 10c; ¼ oz., 75c.**

Pansies.

Petunias (A)

Very popular because of their free-flowering habit and ease of culture; succeeding in almost any soil and giving a mass of blooms from June until frost. Beautiful in beds and borders, growing 1 to 1½ feet high. Our mixtures contain the best colors obtainable and are of the highest quality.

HYBRID. Choice mixture, first quality. **Pkt., 10c; ¼ oz., 35c.**

HOWARD'S STAR. Finest striped colors mixed. **Pkt., 10c; ¼ oz., 75c.**

NANA COMPACTA. Of dwarf habit, excellent for bedding. **Pkt., 10c; ¼ oz., $1.00.**

Phlox (A and P)

Phlox makes a magnificent show in beds and masses where their brilliant and varied colors produce a gorgeous effect. Very easily raised and afford a bright display of flowers all through the summer.

DRUMMONDII. Choice mixture, first quality. **Pkt., 10c; ¼ oz., 35c.**

STAR PHLOX (Cuspidata). With star-shaped flowers, dwarf growth. **Pkt., 10c; ¼ oz., 75c.**

FIMBRIATA. Fringed flowers of beautiful form and color. **Pkt., 10c; ¼ oz., 75c.**

LARGE FLOWERING DWARF VARIETIES

DEFIANCE. Deep scarlet, very compact, free-flowering. **Pkt., 10c; ¼ oz., $1.50.**

DWARF MIXED. Selected colors, compact habit of growth, very effective in beds or borders. **Pkt., 10c; ¼ oz., $1.00.**

HARDY PERENNIAL PHLOX

DECUSSATA. Quite distinct from the above mentioned annual varieties, being very hardy and producing large heads of beautifully colored flowers, blooming in August and September. **Pkt., 10c; ¼ oz., $1.50.**

Poppies (A and P)

Annual poppies should be planted as early in the spring as possible in their permanent places as they will not stand transplanting. The Perennial or Oriental varieties should be sown thinly in the spring and the plants transplanted in September. They are extremely hardy and when once established will remain for years, producing immense single flowers 4 inches in diameter.

TULIP POPPY. One of the most brilliant annuals, the flowers are 3 inches in diameter and of a brilliant scarlet color, greatly resembling tulips. **Pkt., 10c; ¼ oz., 25c.**

THE SHIRLEY. Special strain mixed; fine for bedding or cutting; single annual. **Pkt., 5c; ¼ oz., 10c.**

CARNATION FLOWERED. Splendid double fringed flowers; annual; mixed. **Pkt., 5c; oz., 15c.**

PEONY FLOWERED. Tall growing annual, very double; mixed colors. **Pkt., 5c; oz., 15c.**

DWARF PEONY FLOWERED. Dwarf annual very useful for bedding. **Pkt., 5c; oz., 15c.**

Oriental Poppies.

HARDY PERENNIAL ORIENTAL POPPIES

ORIENTALE. Very charming, producing numerous leafy stems, 2½ ft. high, with large deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy. **Pkt., 10c; ¼ oz., 50c.**

MIXTURE of all the very best **Oriental Varieties.** **Pkt., 10c; ¼ oz., 50c.**

Portulaca (A)

Very showy annual, easily grown, and very effective when massed in beds or edgings. A profusion of brilliantly colored flowers are produced throughout the summer. They thrive best in rather rich soil in a sunny situation.

LARGE-FLOWERING EXTRA DOUBLE MIXED. **Pkt., 10c; ⅛ oz., $1.50.**

LARGE-FLOWERING SINGLE MIXED. All colors. **Pkt., 5c; ¼ oz., 20c.**

Primrose

VULGARIS. Old English garden favorite, beautiful shade of yellow. **Pkt., 10c; ⅛ oz., $1.00.**

AURICULA. Finest mixed, all colors. **Pkt., 10c; ⅛ oz., 75c.**

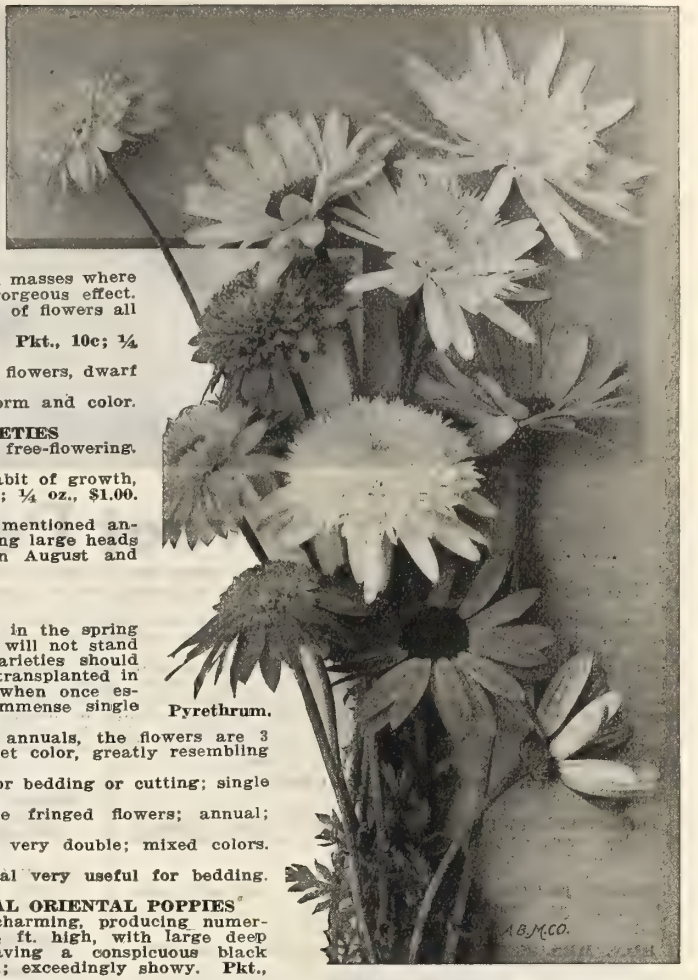
COWSLIP or OENOTHERA. Evening Primrose; free-flowering plants of easy cultivation, producing an abundance of brightly colored single flowers, which open on approach of twilight. **Pkt., 10c; oz., 20c.**

Pyrethrum (P)

Hardy extra double and semi-double mixed. Ranging in color from white to deep red, with yellow centers, blooming in May and June and again in the fall. The flowers are very large and somewhat similar to the Daisy or Cosmos. **Pkt., 10c; ⅛ oz., $1.50.**

Sensitive Plant - Mimosa (A)

Curious and interesting annuals, with pinkish-white flowers; the leaves close and droop when touched or shaken **Pkt., 5c; ¼ oz., 15c.**



Pyrethrum.

Ricinus - Castor Oil Bean (A)

Ornamental plants of strong, stately growth, the foliage having the appearance of a tropical plant, very effective when planted in masses or as centers of Canna or Dahlia beds. Mixed. **Pkt., 5c; oz., 25c.**

ZANZIBAR. Extra mixed. **Oz., 50c.**

Salvia Splendens or Scarlet Sage (A)

Very popular bedding plant, extensively used for lawn and conservatory decoration, bearing long spikes of brilliant flowers from July to frost. It is preferable to start the plants indoors very early in the spring and transplant to the beds when the weather has become warm and settled; also planted in the open ground in May with very favorable results. **Pkt., 10c; ¼ oz., 50c.**

SNAPDRAGON

See Antirrhinum page 34

SWEET ROCKET

See Hesperis.

Stocks - Ten Weeks (A)

One of the most popular annuals, either for potting or bedding. For brilliancy and diversity of color, fragrance, profusion and duration of bloom it is unsurpassed.

DWARF GERMAN DOUBLE MIXED. **Pkt., 10c; ¼ oz., $1.00.**

Scabiosa or Mourning Bride (A)

Fine free-flowering plants for mixed borders and highly esteemed for cut flowers. The blooms are borne on long, erect stems in globular heads in colors ranging from white to dark maroon. Height 2 to 2½ ft. **Pkt., 10c; ¼ oz., 40c.**

Sweet Peas

One ounce for 50 feet of row.

THE GRANDIFLORA type, owing to its vigor of growth, its freedom of blooming and extremely wide range of colors is well suited for most conditions and locations.

THE SPENCERS are of exceptionally large size, the petals waved and frilled and the general effect remarkably graceful and effective. The plants are of vigorous growth and remain in bloom for a longer time than the Grandiflora sorts.

CULTURE. Early in the spring make a trench three to four inches deep in rich, mellow soil, so arranged that no water can stand in it and plant the seed in the bottom, covering at first only one inch deep. When the plants are two inches high, cultivate; and as they grow, gradually fill in the trench. When the plants are about five inches high they should be supported by poultry netting, strings or brush. Water should be applied thoroughly once or twice a week early in the morning or in the evening. The blooms should be picked before they form pods or the plants will soon stop flowering. The following have been selected from hundreds of varieties, as being those of the highest quality in their respective classes.

GRANDIFLORA VARIETIES.

WHITE.

DOROTHY ECKFORD. Considered the best white of this class, of good substance, shell-shaped and pure white.

PINK.

PRIMA DONNA. The most popular clear soft pink, producing flowers of good size.

PRIMROSE.

HON. MRS. E. KENYON. Clear primrose, large semi-hooded flower, white seeded.

ORANGE PINK.

MISS WILLMOTT. A fine orange pink, showing veins of deeper tint. Flowers semi-hooded, good size, on long stems, plant very vigorous.

RED.

AMERICA. Carmine striped and splashed on white, producing large flowers of open form.

KING EDWARD VII. A bright crimson scarlet or pure red of largest grandiflora size; open form.

DEEP MAROON.

BLACK KNIGHT. A glossy deep maroon, producing medium sized flowers of open form.

OTHELLO. A very dark maroon with almost black veining. Large size, hooded form, very attractive.

BLUE.

FLORA NORTON. The flowers are of medium size, hooded form and a beautiful light clear blue in color.

HELEN PIERCE. Finely mottled light blue and white with ivory-white veins, semi-hooded form.

PURPLE.

MRS. WALTER WRIGHT. A large rosy purple, shell-shaped, self colored, beautiful in form and color.

LAVENDER.

LADY GRISEL HAMILTON. A large soft lavender, tinted mauve; one of the best.

Prices: Pkt., 5c and 10c; oz., 15c; ¼ lb., 40c; lb., $1.25.

SPENCER VARIETIES.

WHITE.

WHITE SPENCER. Standard and wings of pure white, beautifully waved and fluted. An especially attractive variety of very large size; seed white.

PINK.

COUNTESS SPENCER. Bright clear pink, sometimes darker near the edges; very large open form; long stems. The first varieties of the Spencer type introduced and still considered one of the best.

PRINCESS VICTORIA. A beautiful shade of deep blush pink, possessing wonderful flowering qualities.

ORANGE AND SALMON PINK.

HELEN LEWIS, RESELECTED. A rich crimson-orange, with wings of orange, rose, or orange-salmon-pink. Large fine Spencer form.

CREAM.

MARGARET ATLEE. Most beautiful deep cream pink, perfectly suffused with a rich glowing pink. The flowers are of largest size, beautifully frilled or waved; many are double.

DOBBIE'S CREAM. A strong growing, profuse blooming variety, with large, much waved flowers, often double.

RED.

KING EDWARD SPENCER. Brilliant crimson-scarlet; very large size and of open form.

THOMAS STEVENSON. Bright orange-scarlet, of large size, the standard showing more orange than the wings. Vigorous and free flowering.

DEEP MAROON.

OTHELLO SPENCER. The most reliable Spencer maroon, of a beautiful, deep shade and very large.

BLUE.

FLORA NORTON SPENCER. Bright blue, with a tint of purple.

WEDGWOOD. Bright silvery blue. Large well waved flowers on long stems. An attractive and very desirable shade.

PURPLE.

ROYAL PURPLE. Rich Royal purple; the best purple yet introduced; vigorous growth.

LAVENDER.

ASTA OHN. Large, wavy and of true Spencer form and size. Suffused lavender and tinted sometimes with pink.

MASTERPIECE. Lavender tinted mauve; the large wavy blooms are not surpassed in beauty.

Prices: Pkt., 10c; oz., 40c; ¼ lb., $1.00; lb., $3.00.

Sweet Pea Mixtures

Our Sweet Pea Mixtures are combined of carefully considered proportions of all the named varieties in our list, which have proven themselves to be the very choicest of their respective types and colors. These mixtures cannot be equaled in their beauty and flowering qualities.

MANNS' GRANDIFLORA SUPERIOR MIXTURE. Pkt., 5c and 10c; oz., 15c; ¼ lb., 40c; lb., $1.00.

MANNS' SUPERB SPENCER MIXTURE. Pkt., 10c; oz., 40c; ¼ lb., $1.00; lb., $3.00.

Sweet William - Dianthus Barbatus (P)

A universally admired perennial flower, which, when once started, will last for years. Free-flowering and attractive, producing a splendid effect in beds and borders. It is preferable to sow the seed very early in the spring every year and have vigorous young plants coming into bloom the same season. They may be sown, however, in August to bloom the following spring. Very satisfactory results are also obtained by dividing the roots of old plants.
SINGLE MIXED. All shades of white, pink and red. **Pkt., 10c; oz., 70c.**
DOUBLE MIXED. Very fine; til colors. **Pkt., 10c; oz., 90c.**

Sweet William.

Verbena (A)

One of the finest bedding plants and also suitable for borders, with its heads of brilliantly colored flowers, producing one mass of bloom throughout the summer. Seeds may be planted as soon as the ground can be worked or earlier indoors and transplanted to the beds in April or May. They succeed in almost any good garden soil.
DEFIANCE. Deep scarlet, large attractive blooms. **Pkt., 10c; ¼ oz., 45c.**
HYBRID MIXED. Extra large flowered, brilliant colors and vigorous. **Pkt., 5c and 10c; ¼ oz., 35c.**
HYBRID COMPACTA MIXED. Very compact and erect in its habit of growth; excellent border variety. **Pkt., 10c; ¼ oz., 60c.**

Zinnias.

Violas or Tufted Pansies (P)

Well known, free-flowering hardy perennials, easily grown from seed. While the flowers are not so large as the regular type of Pansy, the blooms are produced in such an abundance and the flowering season so much longer that they are superior to pansies for some purposes. Seed sown in April produces flowering plants by June and from then on until frost they are a sheet of bloom.
PURPLE QUEEN. Clear distinct blue. **Pkt., 10c; ¼ oz., 70c.**

Violet - Odorata (P)

This beautiful, sweet-scented hardy perennial can be easily grown from seed, thriving best in a partially shaded, moist situation. **Pkt., 10c; ¼ oz., $2.25.**

Wallflower (P)

These deliciously fragrant half-hardy perennials should be better known. Their beautiful spikes of double flowers in their rich Oriental shades of red, yellow and purple are very effective in beds or potted. 1½ ft. high.
GIANT GOLIATH. The earliest and best single variety; large flowered, extra dark blood red. **Pkt., 10c; ¼ oz., 40c.**
SINGLE MIXED. **Pkt., 10c; oz., 25c.**

Zinnias - Double (A)

We have given particular attention to these annuals, developing them into perfection unsurpassed.
GIANT WHITE. **Pkt., 10c; oz., 50c.**
GIANT BUTTERCUP. **Pkt., 10c; oz., 50c.**
GIANT PINK. **Pkt., 10c; oz., 50c.**
DOUBLE GENERAL MIXED. **Pkt., 10c; oz., 50c.**
DAHLIA FLOWERED MIXED. **Pkt., 10c; oz., 75c.**
CURLED AND CRESTED. **Pkt., 10c; oz., 50c.**

CLIMBERS

BALLOON VINE (Cardiospermum). Very graceful, rapid grower, producing inconspicuous flowers, foliage light green. **Pkt., 5c; oz., 20c.**

BALSAM. Beautiful foliage with apple or pear-shaped fruits of a rich golden yellow color. **Pkt., 5c; ¼ oz., 15c.**

CANARY BIRD FLOWER (Nasturtium peregrinum). A most beautiful climber of rapid growth with handsome fringed, rich yellow flowers and fine delicate foliage. **Pkt., 5c; ¼ oz., 15c.**

COBAEA SCANDENS. Of rapid growth, with fine foliage and large bell-shaped flowers of a beautiful violet blue color. **Pkt., 5c; ¼ oz., 30c.**

WILD CUCUMBER VINE (Echinocystis lobata). A quick-growing and attractive climber, will grow 20 feet in six weeks, the large foliage affording plenty of shade. Covered during the summer and fall with sprays of small white flowers. **Pkt., 5c; ¼ oz., 15c.**

CYPRESS VINE (Ipomoea quamoclit). Beautiful and very popular, slender vine, with fern-like foliage and a mass of small star-shaped flowers. Mixed colors. **Pkt., 5c; ¼ oz., 15c.**

GOURDS. A large and interesting class producing a great variety of curious fruits, many of which are peculiarly marked. **Pkt., 5c; oz., 25c.**

HYACINTH BEAN (Dolichos). Of extra rapid growth, introduced from Japan and very much superior to the old-fashioned flowering bean. Darkness, purple flowers; Daylight, white flowers; or mixed. **Pkt., 5c; oz., 15c.**

JAPANESE HOP VINE (Humulus Japonicus). Where an attractive climber is desired that will stand rough usage, there is nothing better **Pkt., 5c; ¼ oz., 15c.**

MOON FLOWER (Ipomoea mexicana). Very pretty, rapid growing vine, with handsome white trumpet-shaped flowers. **Pkt., 5c; ¼ oz., 15c.**

MORNING GLORY (Ipomoea purpurea). This splendid and very popular climber needs no introduction. Our **Giant Japanese Imperial Mixture** is unsurpassed. **Pkt., 5c; oz., 20c.**

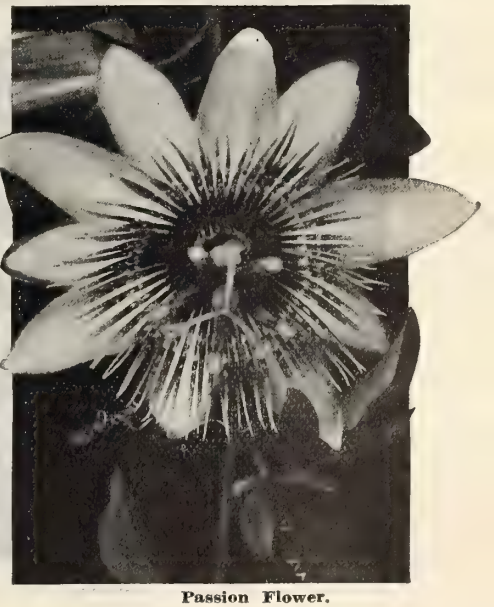
PASSION FLOWER (Passiflora). A most interesting and well known climber, bearing singularly beautiful flowers. **Pkt., 10c; ¼ oz., 50c.**

SMILAX (Medeola). This popular Boston Smilax is a most desirable window vine, on account of its charming, glossy green, graceful foliage. Perennial, splendid for greenhouse or conservatory. **Pkt., 5c; ¼ oz., 25c.**

THUNBERGIA (Black-eyed Susan). Free-flowering and of rapid growth. May be trained on a slender trellis or allowed to run freely over the ground to cover bare spaces. **Pkt., 10c; ¼ oz., 40c.**

CLIMBING NASTURTIUM. Flower and foliage similar to dwarf Nasturtiums; the growth, however, being much more vigorous, 5 to 7 ft. They may be used for porches or urns or left to run freely over the ground. **Choicest Mixture. Pkt., 5c; oz., 10c; ¼ lb., 30c; lb., 75c.**

SCARLET RUNNER. Of very rapid growth, producing clusters of showy bright scarlet pea-shaped blossoms, followed by edible beans of very fine quality. **Pkt., 5c; lb., 50c.**



Passion Flower.

Bulbs and Roots for Spring Planting

New Giant Orchid Flowered Cannas

CITY OF PORTLAND. 3½ ft. pink. Flowers of largest size borne on heavy trusses. A glowing shade of pink. The foliage is substantial and strong, of rich green color and free from defects. **10c each; $1.00 per dozen.**

MRS. ALFRED F. CONRAD. 4 feet. The grandest salmon pink in existence. Magnificent heads of perfectly formed flowers of great size and wonderful substance. **10c each; $1.00 per doz.**

AUSTRIA. 4½ feet. Pure canary yellow with crimson spots in the center of the two inside petals. **5c each; 50c per doz.**

FLORENCE VAUGHAN. 4 feet. Flowers of golden yellow, thickly dotted crimson. **5c each; 50c per doz.**

GOLDEN GATE. 4 feet. The flowers open almost pure gold but soon become richly rayed with orange crimson and apricot centering to the throat. **5c each; 50c per doz.**

YELLOW KING HUMBERT. 4 feet. Like King Humbert in habit of growth and flowering, and produces golden yellow flowers, blotched red. **8c each; 80c per doz.**

MADAM CROZY. 3½ feet. Flowers brilliant vermilion scarlet, with narrow edge of bright golden yellow. **5c each; 50c per doz.**

EUREKA. 4 feet. The best white Canna for all purposes. The large substantial flowers are very freely produced on strong, vigorous plants. **8c each; 80c per doz.**

CHAS. HENDERSON. 4 feet. Brilliant crimson scarlet with flame yellow throat. **5c each; 50c per doz.**

THE PRESIDENT. 4 feet. This canna is superior to any other red variety in the quality of bloom. Color rich glowing scarlet and immense firm flowers are produced on strong erect stalks well above the large, rich green foliage. The foliage is entirely free from disease. **15c each; $1.50 per doz.**

KING HUMBERT. 4 feet. This is the grandest canna ever offered. The large heart-shaped leaves are purple brown over bronze. The plants are crowned with immense heads of orchid-like, velvety orange scarlet, rose-tinted, and margined at the base. A combination of leaf and blossom incomparably beautiful. **8c each; 80c per doz.**

STARTED CANNAS.
Fresh daily in all leading varieties. **2 for 25c; $1.25 per doz.**

Cannas.

Gladiolus

Large, Sound Bulbs, Sure to Bloom.

AMERICA. Beautiful soft flesh pink; one of the best for cutting or bedding. **60c per doz.; $4.00 per 100.**

AUGUSTA. Pure white, with blue anthers, lovely and very useful. **7c each; 70c per doz.; $5.00 per 100.**

BARON J. HULOT. Rich royal violet blue; full round flower. **12c each; $1.20 per doz.; $9.00 per 100.**

CHICAGO WHITE. White, with lavender marking in throat. **7c each; 70c per doz.; $4.50 per 100.**

HALLEY. Delicate salmon pink, very effective. **7c each; 70c per doz.; $4.50 per 100.**

MRS. FRANCIS KING. Brilliant vermilion scarlet, very popular. **60c per doz.; $4.00 per 100.**

Peonies.

NIAGARA. Delightful cream yellow, splashed with carmine. **7c each; 70c per doz.; $5.00 per 100.**

PANAMA. Rich salmon pink, one of the best. **7c each; 70c per doz.; $4.50 per 100.**

PEACE. Grand large white flower, with pale violet feathering on lower petals. **7c each; 70c per doz.; $4.50 per 100.**

PINK BEAUTY. Fine dark rose, with velvet blotch, very early. **7c each; 70c per doz.; $4.50 per 100.**

FINEST MIXED.
Large size bulbs of all the leading varieties, selected to give the most harmonious color scheme of all the most desirable sorts. **50c per doz.; $3.50 per 100.**

CALADIUM ESCULENTUM or ELEPHANT'S EAR.
These are very effective either as single plants on the lawn, in beds, or along the edges of a pond or stream. The leaves often attain a length of 36 inches. Bulbs can be kept over winter and used year after year by storing them in dry sand. Large bulbs, 3 to 4 inches in diameter. **15c each; $1.50 per doz. Add postage.**

EXCELSIOR PEARL TUBEROSE.
One of the most fragrant and most popular of the summer flowering bulbs. May be started early in hotbeds or pots, or planted in open ground after the first of May. **Extra large size bulbs, 5c each; 50c per doz.; $3.50 per 100. Medium size, 30c per doz.; $2.25 per 100.**

TUBEROUS ROOTED BEGONIA.
Excellent for bedding and well adapted to window or conservatory culture, thriving best in partial shade. **Single or double mixed, 10c each; $1.00 per doz.**

HARDY PHLOX.
These perennials are very useful and beautiful in borders and for cutting. They succeed in almost any soil enriched with manure and should be watered freely in dry weather. **Strong roots, separate colors, 15c each; $1.75 per doz.**

PEONY.
This old-fashioned flower is still considered the Queen of spring flowers. They are perfectly hardy, requiring no protection and once planted increase in beauty each year. **All leading varieties, 2 to 5 eyes, 30c to 50c each.** Send for list.

Dahlias

The following list includes the most popular named varieties of each type, in a wide range of colors. Every effort is made to supply our friends with those varieties which have proven to be of most value as garden and cut flower sorts.

Prices quoted are for large field grown dormant roots; or strong pot grown plants, which many experienced growers prefer. We can usually fill the earliest orders with either roots or plants as preferred but it often happens that all of our roots of certain varieties must be started early to take care of our plant trade. This leaves us with a shortage of roots while plants are still available.

Unless instructed to the contrary, we shall take the liberty to substitute plants instead of roots if necessary. Place your order for Dahlias early and avoid disappointment when the time for planting arrives.

FANCY CACTUS DAHLIAS.

This splendid type is considered by some to be the most beautiful of all. The colors are very distinctive and many are variegated in unsurpassed tints. The petals are long and pointed, some twisted.

COUNTESS OF LONSDALE. Rich salmon orange, suffused lavender. **20c each; $2.00 per doz.**

FLORA. Large, handsome, pure white. **15c each; $1.50 per doz.**

STANDARD BEARER. Rich fiery red. **15c each; $1.50 per doz.**

GOLDEN GATE. Bright golden yellow; truly a colossal cactus; flowers often measure 9 inches in diameter, full to the center. A first class dahlia in every respect. **30c each; $3.00 per doz.**

CRYSTAL. A tender silvery pink, shading to ivory white in the center. Flowers large and fine in form, having long, twisted incurved petals. **25c each; $2.50 per doz.**

KALIF. Pure scarlet, truly majestic. Colossal in size, often measuring 8 to 9 inches in diameter, perfect cactus form. **50c each; $5.00 per doz.**

DECORATIVE DAHLIAS.

The decorative dahlias are an intermediate form between the cactus and show types, having petals which are broad and flat, and sometimes twisted and curved almost resembling chrysanthemums. Preferred by florists for use as cut flowers.

DELICE. Beautiful glowing rose pink, good stems. Fine for cutting. **20c each; $2.00 per doz.**

DOROTHY PEACOCK. The best shell pink. **20c each; $2.00 per doz.**

GOLDEN WEST. The most beautiful yellow, good stems. **25c; each; $2.50 per doz.**

HENRY PATRICK. Large pure white. **15c each; $1.50 per doz.**

FRANK L. BASSETT. Bright rose purple. **15c each; $1.50 per doz.**

OREGON BEAUTY. An intense oriental red, with golden sheen and garnet suffusion, producing large flowers on long stems. **20c each; $2.00 per doz.**

PEONY-FLOWERED DAHLIAS.

The flowers of this type are semi-double, the petals being twisted and curled, somewhat resembling the semi-double peony.

Clematis.

MRS. CHAS. L. SEYBOLD. Distinct bright crimson pink, each petal tipped with white. Strikingly beautiful. **15c each; $1.50 per doz.**

PRAIRIE FIRE. Rich scarlet. **20c each; $2.00 per doz.**

QUEEN EMMA. Distinct rose. **15c each; $1.50 per doz.**

QUEEN WILHELMINA. Fine pure white. **15c each; $1.50 per doz.**

Dahlias.

HONORABLE R. L. BORDEN. Large distinct rich golden bronze. One of the finest of recent introduction. **20c each; $2.00 per doz.**

SHOW DAHLIAS.

This type produces large fine-shaped flowers with plain petals showing only solid colors or sometimes two or more shades of the same color. Usually very free-flowering.

A. D. LIVONI. Rich shell pink. **15c each; $1.50 per doz.**
CLIENT. Deep, velvety crimson. **15c each; $1.50 per doz.**
BLACK DIAMOND. Purple garnet, dark shading. **15c each; $1.50 per doz.**
MARGUERITE BRUANT. Pure white, dwarf, free flowering. **15c each; $1.50 per doz.**
QUEEN OF THE YELLOWS. Pure yellow, quilled petals. **15c each; $1.50 per doz.**
ZEBRA. Pearl white. Edged deep pink. **20c each; $1.50 per doz.**

MIXED DAHLIA ROOTS.

This mixture is a combination of the most beautiful varieties of all types. If no particular type or color is especially desired, these roots will prove entirely satisfactory, each producing beautiful flowers of one of the popular varieties. **10c to 25c each, according to size.**

DAHLIA SEED.

Very satisfactory results are obtained from seed planted early indoors and transplanted permanently in May or June. With proper care the plants will bloom the first year. (See page 36.

Cinnamon Vine.

Hardy climber, small white flowers. **Strong tubers, 10c each.**

Madeira Vine.

Rapid growing climber. **8c each, 10c each.**

Hardy Clematis.

One of the most beautiful hardy climbers; of strong rapid growth producing a profusion of deliciously fragrant flowers. **20c, 25c, and 30c each.**

Miscellaneous Farm Seeds

Our fair dealing and conservative methods have resulted in an enormous increase in the volume of our field seed business and we are thoroughly convinced that high quality seed at a reasonable price will make many more pleased customers during this year.

Our experience in this line and our equipment protect you from the many losses which must result from the planting of inferior seed, which is expensive at any price. All seeds offered must strictly conform to our high standards, and purchasers may depend upon our best efforts to supply only seed which is fresh, pure and free from weeds.

Continual market fluctuations make it impossible to quote firm prices; changes are made almost daily. We shall therefore appreciate the opportunity to mail samples and quote the very latest price on any quantity.

When comparing quotations, consider both purity and germination.

Clovers

MEDIUM or COMMON RED. (Trifolium pratense.) The Clover Seed of Commerce, and the most important and valuable of the Clover family for agricultural purposes. Sow 15 lbs. per acre. (Bushel 60 lbs.) **25c per lb.**

ALSIKE or HYBRID. (Swedish.) (Trifolium hybridum.) Hardiest of all Clovers; perennial. On rich, moist soils it yields large quantities of hay or pasturage, as it forms a thick bottom; has fibrous roots like White Clover. Esteemed highly by bee keepers. **Lb., 20c.**

MAMMOTH CLOVER. (Trifolium pratense perenne.) Valuable with other grasses for mixed hay; ripens about with Timothy. Being a rank grower, it is largely used for

WHITE DUTCH. (Trifolium repens.) Grows naturally in pastures in a great variety of soils and situations; indispensable in parks and lawns. **Lb., 65c.**

plowing under as a fertilizer. **Lb., 26c.**

CRIMSON CLOVER. (Trifolium incarnatum.) Being an annual, it must be sown in July, August, and September of each year, which, the spring following, can be cut for soiling by April 20th; for ensilage, May 1st to 15th; for seed, about first week of June. Can be grown in corn, or any cultivated crop. Ten to fifteen pounds necessary to seed an acre. Cover with a light harrow. (60 lbs.) **Lb., 12c.**

ALFALFA or LUCERNE. (Madicago sativa.) This Clover claims to bear the palm as a forage plant, coming earliest in spring and remaining latest in fall. It delights in plenty of sun, being a veritable child of the sun; must be sown at the rate of from 10 to 25 pounds of seed per acre on well drained, well pulverized deep soil after danger of freezing is over, and prefers sand or gravel sub-soil. Wet sub-soil is fatal to the plant. Roots 3 to 4 feet deep, and when well established lasts for years. 2 to 3 crops a year can be cut. Not recommended for pasture. **Lb., 22c; bushel (60 lbs.), $12.00.**

BOKHARA. (Melilotus alba.) This slightly resembles Alfalfa in growth, but is much taller, with leafier and stiffer stems. It frequently grows 5 to 6 feet in height and branches freely, with slender spikes of small, fragrant, white flowers, which afford an excellent food for bees. **Lb., 12c; bushel (60 lbs.), $6.50.**

JAPAN CLOVER. This makes most nutritious and desirable summer pasture. Grows well and spreads rapidly on poor lands, hillside and under the shade of trees. **Lb., 30c; bushel of 25 lbs., $5.50.**

Drought Resisting Grasses

PERENNIAL RYE GRASS. (Lolium perenne.) Very nutritious; valuable for meadows or permanent pastures; rapid grower; most prominent grass in England. Sow 1 to 1½ bushels per acre. (Bushel 24 lbs.) **Per bu., $2.50.**

MEADOW FESCUE. (Festuca pratensis.) Thrives in all soil; excellent for permanent pastures; starts early; very productive. Sow 1 to 1½ bushels per acre.

SHEEP'S FESCUE. (Festuca ovina.) Grows naturally on light, dry, sandy soils and mountain pastures; considered quite valuable mixed with other grasses for permanent early spring pasture. (about 12 lbs.)

HARD FESCUE. (Festuca duriuscula.) Not very productive, but it is of a very fine quality, and thrives well in dry situations where many other grasses would fail, thus making a desirable pasture variety. **Per lb., 50c.**

Red Clover.

MILLET.

GERMAN or GOLDEN MILLET. True Southern grown German Millet Seed is far superior to Western grown seed. **Peck, 60c; bu., $2.25.**

HUNGARIAN GRASS.

A very valuable forage plant of the Millet family, but not so coarse. Two to three weeks earlier than German Millet. **Peck, 70c; bu., $2.50.**

Grass Seeds

KENTUCKY BLUE GRASS. June Grass. (Poa pratensis.) Universally known; desirable for pastures and lawns. Sow in fall or spring at rate of 2 or 3 bushels per acre. Fancy clean seed. (Bushel 14 lbs.) **Bushel, $5.00.**

RED TOP GRASS. (Agrostis vulgaris.) Thrives well in any soil, but best on low land; produces a firm sod. Sow 1 to 2 bushels per acre. **Lb., 26c.**

TIMOTHY. (Phteum pratensis.) Well known variety. When ready to buy write for latest prices, whether a bag or a carload. (Bushel 45 lbs.) **Bushel, $4.00.**

ORCHARD GRASS. (Dactylis glomerata.) Extremely hardy and widely known. One of the earliest to start in spring; grows rapidly; furnishes an abundance of pasture the entire season. 1½ to 2 bushels per acre. (Bushel 14 lbs.) **Bushel, $2.75.**

RHODE ISLAND BENT GRASS. (Agrostis canina.) Valuable for lawns. Sow 3 to 4 bushels per acre for lawn. 1½ to 3 bushels for pasture. (Bushel 12 lbs.) **Lb., 90c.**

TALL MEADOW OAT GRASS. (Avena elatoir.) Used for soiling. Succeeds well in sandy lands, and owing to its long, fibrous roots, stands cold and drought well. Sow 3 bushels per acre. (Bushel 10 lbs).

SWEET VERNAL. (Anthoxanthum odoratum.) Very fragrant, especially when bruised or cut. Mixed with other grasses for pasture it is quite valuable, as it starts early in the spring and grows until late in the fall. (Bushel 10 lbs.)

CREEPING BENT GRASS. (Agrostis stolonifera.) Excellent for pasture when mixed with other grasses; succeeds well in most situations and thrives in moist land. Sow 40 pounds per acre. (Bushel 14 lbs.)

WOOD MEADOW GRASS. (Poa nemoralis.) Recommended especially for low, wet pasture, or for lawns in damp, wet situations. It starts early in the spring and produces a beautiful green turf, which lasts a long time. (Bushel of 14 lbs.) **Per lb., $1.25.**

Sudan Grass

Sudan, the greatest forage crop, should be grown on every farm, where either hay or pasture is desired. It is highly resistant to drought and stands very heavy grazing. Yields from 2 to 10 tons per acre, is superior to either Millet or Sorghum in feeding quality, and may be fed in unlimited quantities.

Sow 10 to 20 lbs. per acre, 1 to 1½ inches deep, the highest quality hay resulting from heavy seeding. Should be harvested just before the heads appear, in the same manner as other grasses. Cures quickly and matures as early as Millet, the first cutting being ready in about 6 to 8 weeks.

Successive cuttings may be made every 30 to 45 days until frost. Highly recommended by the Government as being very nutritious and easily digestible. Being an annual, this must be seeded every year and therefore never becomes a pest. **$16.00 per 100 lbs. Subject to change.**

Kaffir Corn

The heads are greedily eaten by horses and cattle and make splendid food for poultry, fed either in the grain or ground and cooked. Excellent forage. Cultivate same as common corn, requiring four or five pounds per acre. **100 lbs., $3.50.**

Dwarf Essex Rape

This plant is extensively grown for forage, especially for sheep, and for green manure. Prepare the ground as for turnips and sow in June or July in rows two and a half feet apart at the rate of two and a half pounds of seed per acre. **Lb., 10c; 100 lbs., $9.50.**

Sorghum or Cane

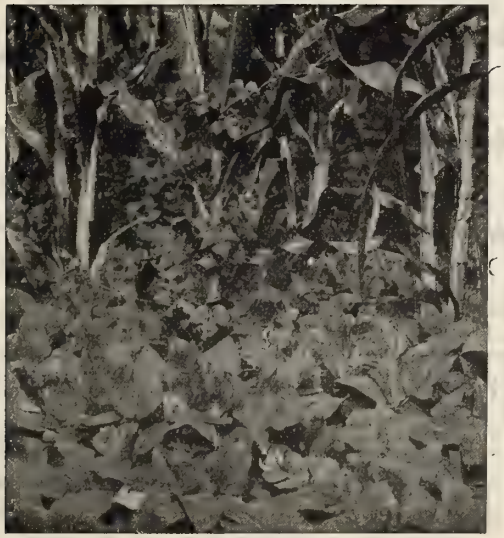
EARLY AMBER SORGHUM. Furnishes a large yield of most nutritious forage, which can be fed either green or cured, and will yield two or three cuttings a year, stooling out thicker each time it is cut. It grows ten or twelve feet high. Sow at the rate of one peck per acre in drills three and a half to four feet apart. **Peck, 90c; bu., $3.25.**

EARLY ORANGE SORGHUM. This variety is similar in growth to Early Amber, but under fair conditions produces a heavier crop. It is better for stock feeding than the Amber. **Per bushel, $2.50.**

Buckwheat

JAPANESE. This variety yields very largely. The kernels are larger than other sorts, but owing to its branching qualities it need not be sown so thickly. **Peck, 60c; bushel, about $2.25.**

SILVER HULL. A superior variety in every way to the ordinary Buckwheat, which it has almost entirely superseded. **Peck, 60c; bushel, about $2.25.**



Cow Peas Growing in Corn.

Sudan Grass.

Oats

WHITE SPRING OATS. Our best recleaned stock of these are Choice Northern grown, all heavy oats, which have been recleaned by us. **Bushel, 85c.**

RUST-PROOF OATS. A favorite spring variety in the South, particularly where the land is rich; produces enormous yield, and excellent for cutting for hay. **Bushel, 85c.**

Cow Peas

There is no surer or cheaper means of improving and increasing the productiveness of our soils than by sowing the Cow Pea. It has the power to extract costly nitrogen from the atmosphere and to store the same in the vines and roots, so that the land is enriched and its condition improved. From five to nine tons of green fodder per acre have been produced. For ensilage they are unsurpassed. When it is desired to turn the whole crop under, as a soil improver, it is better to do so after the vines are partly dead. Cow Peas can be sown in May or June, at the rate of one and a half bushels per acre.

BLACK. Quick to mature, adapted for late planting in Northern sections; vigorous grower and great yielder. **Write for latest price.**

BLACK EYE. A prolific vine-growing variety of merit, seed often sold for table use. **Write for price.**

WHIPPOORWILL. A favorite early bunch-growing variety. A prime favorite in the North and West on account of its early maturity and habit of growth. Price fluctuates.

Canada Field Peas

Sown in open weather during December, January, February and March, making large yields of most nutritious food, which can be used either green or cured for hay. It also makes a good green manuring crop to turn under, but not equal to Cow Peas. A light seeding of oats, rye or barley will increase the yield and help to support the vines when the crop comes to maturity. Ready for cutting in May and June, cures easily and makes splendid hay. **Write for price.**

Soy or Soja Beans

A Great Drought-Resisting Forage Crop, Producing Immense Quantities of Nutritious Food, Beside Being an Excellent Soil Improver.

The Soy Bean is coming right to the front as a great soil enricher, as a food for hogs or cattle, both in the green and dry state. To plow under in the green state it is certainly one of the very best plants, next to Cow Peas. Subject to market fluctuations.

Sand or Winter Vetch

Sometimes called Hairy Vetch. The most valuable of all Vetches. It succeeds on nearly all soils and is especially recommended for poor lands, where it thrives and improves the soil wonderfully, as it is very rich in nitrogen. It belongs to the pea family, but the vines are more leafy and longer. It may be sown in the spring or in the fall, preferably with rye. It remains green all winter and is valuable for early pasturing, as well as a fertilizer. 60 pounds per acre. **Per 100 lbs., $20.00.**

Manns' Evergreen Lawn Grass

Sow 1 pound to 200 square feet, 40 to 60 pounds per acre.

Our "Evergreen" Lawn Grass is a correctly proportioned mixture of the very best varieties of grasses blended according to a formula which has resulted from many years of study and experience.

Every variety included has its special duty to perform in the quick production and steady maintenance of a beautiful and permanent lawn. Soil and climatic conditions are provided for by including each of the grasses which flourish during the various seasons. There are those which develop to perfection very early in the spring, some especially suited for resisting the heat of the summer while others grow best during the fall and early winter. We have also included those types which produce strong, fibrous root systems holding the turf in place, preventing the soil from washing and holding the moisture, greatly assisting the other varieties. Others because of their creeping nature quickly fill up the bare spots which may be caused by the taller sorts dying down; some particularly useful for their beautiful, velvety appearance, some for drought resisting qualities and others for ability to withstand very wet seasons.

Both imported and domestic grasses are procured from growers best equipped to produce the respective sorts in their highest quality most economically. We do not purchase an ounce of ready mixed lawn seed and therefore we positively know our customers are getting "Evergreen" Lawn Grass mixed according to our own formula. By this method of purchasing, we also find it possible to supply the highest quality seed at the lowest possible prices.

In offering this mixture, we realize that the customer does not merely purchase a bag of seeds, but also makes an investment of time and money for the establishment of a permanent lawn with which to beautify his property. We therefore do not grade our mixture down to a price, but carefully follow our formula and our knowledge of the markets and experienced purchasing methods take care of the prices.

As with all J. Manns & Co. seeds, our "Evergreen" Lawn Grass Seed is superior in quality and moderately priced. **Lb., 40c; 100 lbs., $35.00, f. o. b. Baltimore.**

Manns' Shady Place Lawn Grass

This mixture contains only those grasses which are best adapted for growing under trees and in shaded spots. It quickly produces an abundant and even growth of beautiful grass, harmonizing in color and general appearance with our regular "Evergreen." **Lb., 40c; 100 lbs., $35.00, f. o. b. Baltimore.**

Field Corn

The stock we offer has been especially grown and selected for seed purposes.

Clark's Early Smoky Dent This new introduction has been developed by one of the largest and most reliable growers of corn in this country. Early Smoky Dent is today the earliest Dent Corn in cultivation, maturing in 75 to 80 days; is a good yielder and entirely free from disease; grows strong, quick, and has splendid 7 to 8 ft. fodder. **Pk., 85c; bu., $3.00.**

Ninety-Day Red Cob See page 13.

Golden West This variety will yield a larger crop than any other yellow corn in existence. It is vigorous in growth, very deeply rooted, and produces broad-leaved stalks of medium height. It is most attractive in appearance, and the ears usually have 18 to 20 rows of large kernels, which are tightly wedged to make a solid ear. It requires about 100 days to mature and deserves the attention of any grower who wants a big crop of fine quality yellow corn. **Pk., 85c; bu., $3.00.**

Pride of the North Maturing perfectly in 90 days, and being very hardy and prolific. Pride of the North has become a favorite among Northern growers and planters needing a 90-day yellow variety. The ears are of medium size with very small red cob. The kernels are closely set, long and compact. **Pk., 85c; bu., $3.00.**

Golden Beauty It is a large and broad-grained yellow corn. The ears of perfect shape, with from ten to fourteen straight rows of grains. The cob is very small. **Pk., 85c; bu., $3.00.**

Leaming Improved Dent A very popular and extremely productive variety. On good lands the stalks grow tall, producing two good ears to each stalk. The ears are long, with small red cob well filled with grains of medium size, but deep, of a rich golden color. It ripens with us in from 100 to 110 days, and makes a good crop. **Pk., 75c; bu., $2.50.**

Iowa Silver Mine **The National White Corn.** A remarkable drought resister and under adverse conditions seems to pull through and make a crop where other varieties fail. Silver Mine is deep grained, pure white, rough-topped, with a small, white cob. Ears run from 9 to 12 inches long, with 16 to 20 rows of pure white kernels. Stalks medium height, very leafy, with broad blades, frequently bearing two ears weighing 1 to 1½ pounds each. Iowa Silver Mine has probably taken as many sweepstakes and first premiums as any corn in existence. **Pkt., 85c; bu., $2.50.**

Iowa Gold Mine With the expert farmer Gold Mine is known as medium early, between the 110 day and the extra early sorts that mature in 85 days. It is a great producer and sure cropper. Ears are medium, symmetrical. Color bright golden yellow. The grain is deep and the cob is small. **Pk., 75c; bu., $2.50.**

Improved Maryland Yellow Dent A cross with the Golden West and Maryland Yellow Dent, both well known varieties. Ears measure 12 to 15 inches in length with 14 to 18 rows of very deep grains closely placed on the cob. The strain has been fully established and will mean larger and more profitable crops to the grower. **Pk., 85c; bu., $2.50.**

Boone County White Boone County is a very large white corn, something like Silver Mine, but larger and later in maturing. Ears well filled out at both ends, cylindrical, 9 to 11 inches long, averaging 20 rows, some 18 to 22. Grain very deep, a little rough. Cobs white, of medium size. Matures in 110 to 120 days. **Pk., 85c; bu., $3.00.**

Maryland White Dent An old standard variety and great favorite of every farmer who has grown it. The stalks are of a strong growth, bearing from one to two large ears, which have 10 to 12 rows to the cob. Grain is pure white and of fine quality. **Pk., 85c; bu., $3.00.**

Improved Hickory King Largest grains of any white variety. Matures early and very productive. Ears set low, are of large size, well filled, very deep grained. It produces well, even on light land. **Pk., 85c; bu., $3.00.**

Cuban Giant Ensilage Well known as the leading variety for the production of fodder. **Pk., 85c; bu., $3.00.**

INOCULATE YOUR ALFALFA, CLOVERS, COW PEAS, AND ALL OTHER LEGUME CROPS WITH MULFORD CULTURES

The U. S. Department of Agriculture strongly recommends the use of nitrogen-fixing bacteria to induce a prompt "catch" and increase the yield of legume crops. Mulford's Cultures are scientifically prepared and tested by experts. The first cost is very small but the returns large because crops are increased and the soil is improved. **¼-acre size, 75c; 1-acre size, $1.50; 5-acre size $5.00.**

Always state variety of seed to be inoculated.

ANTICIDE.

A remedy against ants in lawns. In powder form applied at rate of 1 lb. to 200 sq. ft. It is impossible to have a good lawn where ants are at work cutting off the rootlets of the grass. **1 lb., 30c; 5 lbs., $1.25; 25 lbs., $5.00.**

ARBO.

A combined remedy for insects and fungus serving two purposes at one spraying. Excellent for potatoes. Sticks like glue. **1 lb., 40c; 5 lbs., $1.50; 25 lbs., $5.00.**

ARSENATE OF LEAD.

(Powdered Form.) For destroying leaf eating insects, not harmful to the foliage, greatly adhesive. Powdered arsenate of lead is more economical than other forms. Prices: Powder, **1 lb., 40c; 5 lbs., $1.60; 25 lbs., $6.80.** Paste, **5 lbs., $1.25; 10 lbs., $2.00.**

BLACK LEAF 40.

A highly concentrated solution of Nicotine Sulphate, easily soluble in cold water. It is highly recommended by Experiment Stations and Spraying experts, for use against aphis and other sucking insects. Full directions on each package. **1 oz. bottle, 35c; ½ lb. tin, $1.25; 2 lb. tin, $3.50; 10 lbs., $13.50.**

BORDEAUX

Arsenate of Lead Mixture.

A fungicide in dry or paste form, used for preventing many fungus growths, blights, etc. May be either sprayed or dusted. **Powder, 1 lb., 45c; 5 lbs., $1.70; 50 lbs., $7.25; 100 lbs., $13.50. Paste, 1 qt., 40c; 1 gal., $1.25; 5 gal., $5.25.**

BUG DEATH.

The popular non-poisonous insecticide and can therefore be used safely and very effectively on Cabbage, Tomatoes, Celery, Lettuce, Berries, Egg Plants, Squashes, Melons, Cucumbers, etc. Highly recommended for Potatoes. Can be used dry or with water. **1 lb. pkt., 20c; 3 lbs., 50c; 5 lbs., 75c; 100 lbs., $9.00.**

B. T. S.

Barium-Sulphur.

Barium is very similar to Lime (or Calcium) in its chemical properties but when combined with Sulphur it greatly improves the value of both elements as a spray for controlling scale. May be used in both dormant and growing period applications. **1 lb., 25c; 5 lbs., 90c; 100 lbs., $12.50.**

CUT WORM KILLER.

A sure remedy against cut worms, which is non-poisonous to birds or chickens. Order Sterlingworth Cut Worm Killer when you buy your seeds and have it ready for an emergency. One pound is sufficient for 175 plants in hills or 100 feet of drill. **1 lb., 30c; 5 lbs., $1.25; 25 lbs., $5.00; 100 lbs., $15.00.**

GOOD'S NO. 1 FISH OIL SOAP

Keeps trees, plants and vines clean and healthy, effectively controlling sucking insects and many forms of scale. The effectiveness of nicotine sprays is greatly increased by adding Fish Oil Soap, as the spray is more penetrating, and is spread more thoroughly. **Price, 1 lb., 20c; 5 lbs., 75c.**

GRAPE DUST.

A readily diffusable, light weight powder fungicide, very efficient in destroying mildews and preventing blights. **5 lbs., 60c.**

FORMALDEHYDE.

Extensively used in the preparation of potatoes for seed, as a preventative against potato scab and to destroy other germs on the seed. Will also control some forms of grain smut. For potatoes a solution of 1 pt. to 15 or 20 gallons of water is made and the cut pieces are soaked for 2 hours. One to two gallons of this will be sufficient for 1 bushel of seed. **Pt., 75c.**

HELLEBORE.

Finely powdered remedy against rose slugs, cabbage worms and other leaf eating insects. Can be applied dry or sprayed. **Per lb., 65c; ½ lb., 35c.**

HE BO.

A substitute for Hellebore, being less highly concentrated and therefore satisfactory for mild cases. Excellent for leaf eating insects. **½ lb., 20c; 1 lb., 35c.**

KAYLOX.

A fine powdered insecticide and fungicide, applied with water or dry. Excellent for fruit and vegetables, a certain remedy against many forms of fungus and all leaf eating insects. Not used for dormant spraying or sucking insects. Serves as a tonic to vegetables, thereby prolonging the growing season. **½ lb., 30c; 1 lb., 55c; 5 lbs., $2.50; 10 lbs., $4.50; 25 lbs., $10.00; 100 lbs., $35.00.**

LEMON OIL.

Soluble in water; will destroy Aphis, Rust, Scale, and Bugs on Palms, Ferns, Rose Bushes, etc. Highly recommended as a wash for dogs and other animals, destroying lice and relieving mange. **½ pt., 35c; 1 pt., 60c; 1 qt., $1.00.**

LIME AND SULPHUR SOLUTION.

The popular spray material for dormant spraying against scale and as a Summer spray against certain fungus diseases. **1 gal., 85c; 5 gal., $3.50; 10 gal., $5.00; ½ bbl., 21c per gal.; 1 bbl., 18c per gal.**

DRY LIME AND SULPHUR.

Just as effective as liquid but more economical because of the absence of water. Represents a saving in freight charges, is more easily kept as it does not freeze and there is no loss from leakage. Dissolves readily in cold water and complies with Government specifications. **1 lb., 30c; 5 lbs., $1.20; 10 lbs., $1.95; 50 lbs., $7.25; 100 lbs., $13.50.**

MAGOTITE.

Protects your crops aginst the ravages of the root maggot which infest cabbage, kale, cauliflower, radishes, turnips, etc. **2 lb. pkg., 35c; 4 lbs., 60c; 8 lbs., $1.00; 25 lb. sack, $2.50; 100 lbs., $8.50.**

NICO-FUME.

This is the strongest tobacco paper on the market. Does not injure blooms and furnishes the easiest method of fumigation ever devised. **Tin box of 24 sheets, $1.25; 144 sheets, $5.50; 288 sheets, $10.00.**

NICO-FUME LIQUID.

Very powerful tobacco extract. Soluble in water. Guaranteed 40% nicotine. **¼ lb. tin, 75c; 1 lb. tin, $2.25; 4 lbs., $8.00.**

NIKOTEEN.

An economical and powerful nicotine extract. Effective remedy against aphis and fly insects. **Half lb., $1.15; 1 lb., $2.00; 4 lbs., $7.00.**

PURE PARA-DICHLOROBENZENE.

For Peach Borer Control.

Very powerful and effective remedy just coming into general use as a result of the experiments of the Department of Entomology. Should be applied Sept. 1st to Oct. 10th, according to latitude. Some growers prefer to make two applications, the first being in the month of June. One pound is sufficient for 10 to 30 trees, according to size. It is not advisable to treat trees under 4 years of age with Para-Dichlorobenzene, and apple trees should never be treated. **Price, 75c per lb.**

PARIS GREEN.

A poisonous, insoluble powder similar to arsenic in its effects; used extensively against potato bugs, worms and caterpillars, etc. **Half lb., 25c; 1 lb., 45c; 5 lbs., $2.00. Special price on larger quantities.**

PYROX.

Kills Insects—Prevents Fungus and Diseases.

1 lb.	Jars	$0.45
5 lb.	Drums	1.65
10 lb.	Drums	3.00
25 lb.	Drums	6.00
50 lb.	Drums	11.00
100 lb.	Drums	18.50

SLUG SHOT.

(Hammond's.) Guaranteed to destroy potato bugs, cabbage worms, lice, fleas, beetles, striped bugs, etc., on currants, egg plants, melons, turnips, beets, etc.; canker worms and caterpillars on fruit and ornamental trees. **1 lb. sifter, 15c; 5 lb. pkg., 45c.**

SULPHUR.

(Flour.) Extra fine; for dusting purposes. **1 lb., 10c; 10 lbs., 70c; 25 lbs., $1.25; 50 lbs., $2.00; 100 lb. bag, $3.00.**

TOBACCO DUST.

Excellent insecticide and fertilizer combined, extensively used against, black and green aphis, fleas, beetles, etc. Finely powdered and high in nicotine content.

Grade 1: **1 lb., 10c; 5 lbs., 35c; 10 lbs., 60c; 50 lbs., $2.50; 100 lbs., $4.25; ton, $74.00.**

Grade 2: **Per 100, $2.25; ton, $39.00.**

TREE TANGLEFOOT.

Applied directly to the bark of trees, protecting them from climbing insect pests. Easily applied and will remain sticky for three months fully exposed to the weather. **1 lb. can, 50c; 5 lb. can, $2.25; 10 lb. can, $4.25.**

WEED KILLER.

For killing weeds in walks, drives, and tennis courts where no vegetation is wanted. Successful against all kinds of weeds and grass, applied dissolved in water with an ordinary watering pot. **1 lb., 50c; 5 lbs., $2.00.**

To kill weeds in lawns without killing the grass use Lawn Compound. **5 lbs., 75c; 10 lbs., $1.25; 100 lbs., $7.80.**

SPRAYERS

THE "MISTY" SINGLE ACTION.

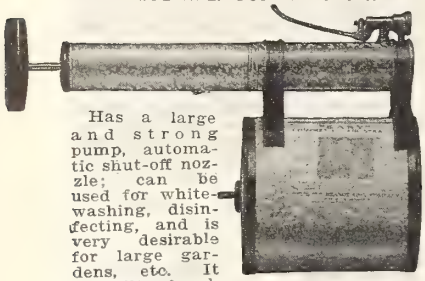
A low-cost sprayer made of heavy tin for general purposes; holds one quart.

Misty $0.35
Faultless ..... .35
Midget. 1-pint size $0.30
Powder Duster ..... .40

GLASS JAR SPRAYER.

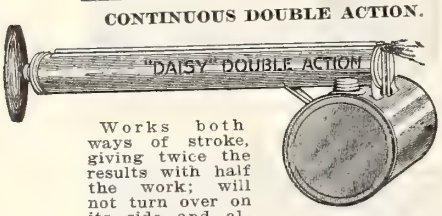
Holds one quart; has long, powerful pump; two discharge tubes, which send the spray over a wide area. **Price, 70c.**

EASY AIR COMPRESSOR.



Has a large and strong pump, automatic shut-off nozzle; can be used for whitewashing, disinfecting, and is very desirable for large gardens, etc. It is built of galvanized steel and holds one gallon. **Price, $3.25.**

CONTINUOUS DOUBLE ACTION.

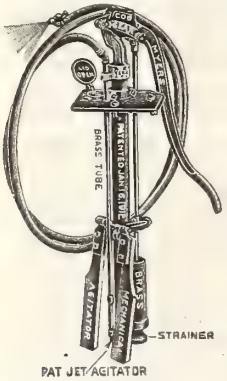


Works both ways of stroke, giving twice the results with half the work; will not turn over on its side and allow the liquid to run out; made of heavy galvanized steel. **Price, 70c.**

KNAPSACK SPRAYER.

Tank holds 5 gallons. The pump is made entirely of brass, with large air chamber, ball valves, solid plunger and agitator, fitted with 5 ft. ½-inch hose, and Bordeaux nozzle. **Galvanized steel, $11.25. Brass Tank, $18.00.**

COG-GEAR BARREL SPRAY PUMP.



The construction is such that the entire pump sets inside the barrel containing the liquid, being bolted fast at its upper end to the head of the barrel.

Has bronze ball valves and brass seats. The air chamber is 32 inches in length, enabling the pump to throw a uniform, constant and elastic spray.

It has good leverage, is very powerful and easily operated. Complete with 15 feet of ½-inch 5-ply hose, Vermorel or Bordeaux nozzle and agitators. **Price, No. R305B, $12.75. No. 318B, $13.50. No. 316B, $45.00.**

PERFECTION.

This is the most powerful machine in its class. The barrel is 7½ in. in diameter and 20 in. high. The pump is 1¾ seamless brass tubing. The valves are metal and work automatically from 8 to 15 minutes, and may be recharged in 12 seconds. A boy with the Perfection can easily do as much work as three men using a hand atomizer, and do it more thoroughly. For whitewash use a No. 2 cap in the nozzle, which is furnished with each sprayer. **Galvanized Steel, $6.00. Brass, $9.00.**

HUDSON SPECIAL.

The 1922 is a high pressure compressed air sprayer for any and all work. It is particularly adapted for spraying potatoes and garden truck, fruit trees and vines, shade trees and ornamental shrubs, for whitewash, cold-water paints, disinfectants, deodorizers, insecticides, stock dips, floor oils, etc. Capacity about 4 gallons. Shipping weight 11 pounds.

No. 1922B. All brass. **$8.50.**

HUDSON JUNIOR SPRAYER.

The Hudson Junior is a high pressure compressed air sprayer. It is designed especially for the Farmer, Gardener, Physician, Clerk, Store Keeper, or anyone having a few fruit trees, ornamental shrubs, rose bushes, or a vegetable garden which requires spraying. It will do the work just as thoroughly as any larger power outfit, as it has all the necessary features to produce the best results.

Tank is heavy gauge galvanized sheets or all brass as ordered. Side seams are riveted and soldered. Pump is seamless brass tubing which seals into the tank by a half turn of the D handle and is easily removed for filling, cleaning, etc. It is equipped with special spray hose built to withstand high pressures, and our "Perfection" automatic shut-off nozzle. An extension may be used with it if desired. Capacity about 2½ gallons. Shipping weight 8 pounds.

No. 140G. Junior with galvanized tank, $4.50. No. 140B. Junior with brass tank, $7.25.

MYERS COMPRESSED AIR SPRAYER No. 296.

Made of heavy galvanized iron, with 1¾" brass tube cylinder, attached to the can by means of a heavy brass screw nut. The nozzle is a special feature of this sprayer, making long distance spraying possible. The solution can be thrown a distance of 25 ft. Has always given entire satisfaction. Capacity 3 gallons. **Price, Galvanized, $5.50. Brass, $8.50.**

LITTLE GIANT AND PEERLESS BUCKET SPRAY PUMPS.

Made entirely of brass, malleable footrest, provided with large air chamber and throws a continuous spray. **Price, with 4 ft. ½-inch hose and two nozzles, $4.00.**

PERFECT LEVER BUCKET SPRAY PUMP.

The air chamber is 50 per cent larger than the Little Giant Sprayer. **Price, complete with agitator, hose and terminal nozzle, $6.00. 8-foot extension pipe, 50c.**

MODOCK BUCKET SPRAYER.

Price $4.50

JUNIOR NO. 5 BUCKET SPRAYER.

Does away entirely with the objectionable foot-rest, clamps, leather suction, packing, etc., etc.

This Pump requires **no fastening of any kind,** holds itself down and works anywhere and everywhere. All the operator need do is to press the plunger down. **It rises of itself,** the upward stroke being made by a brass spring forcing the cylinder apart.

The **all brass** suction working within **a brass cylinder** with all **brass valves.**

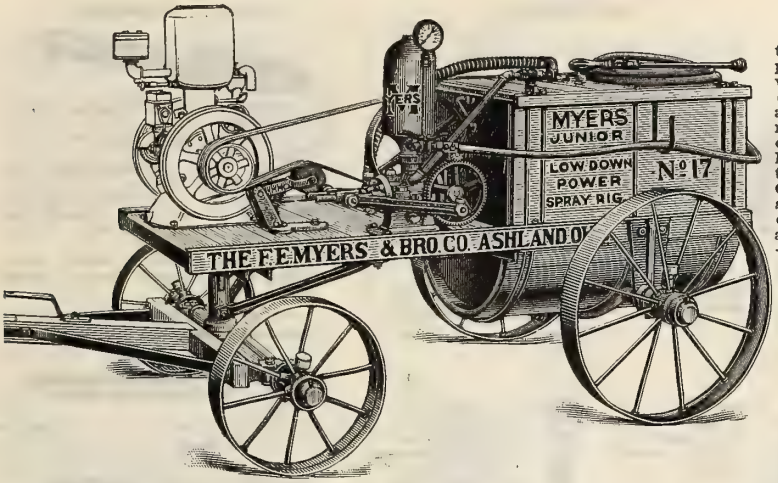
Everything except handle and hose is **solid brass threaded and screwed together.**

Is the **easiest working** and will do more different kinds of work than any pump ever made. Will pump from a pail, barrel, tank, spring or creek. Weighs only 4 lbs. and is **ready for instant use everywhere.**

Will throw three sizes of solid **continuous** streams and two sizes of fine round spray. Has automatic mixer to keep solution stirred, pleases everybody and will last a lifetime. **Price, $3.75.**

"KANT KLOG" COMPRESSED AIR SPRAYER.

The most practical compressed Air Sprayer, and useful in every variety of spraying and whitewashing. The tank is made of either heavy brass or galvanized iron as ordered, and has a capacity of around 3 gallons of solution. The pump is of heavy brass, 2 inches in diameter, and four or five strokes from the plunger will discharge the contents under a high pressure. Has the famous "Kant Klog" patented nozzle, which can be instantly cleaned by pressing it with the thumb. Stops liquid instantly when the thumb pressure is released. **Galvanized Tank, $6.00. Brass Tank, $9.00.**



POWER-SPRAY GUN.

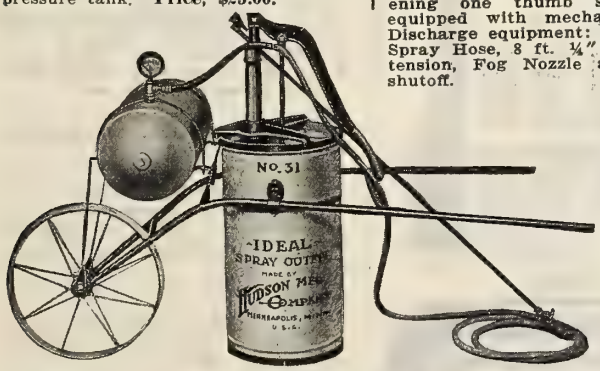
Can be used on any Power Spray Pump, and does away with all bamboo extensions, nozzles and fittings. It enables one man to do the spraying, thus saving the expense of two extra men. By a one-third turn of the handle the spray can be adjusted from a long distance spray reaching the top of the tree to an extremely broad spray sufficient to cover the entire tree or shut off entirely. **Price, $6.00.**

MYERS POWER SPRAY PUMP.
USED ON NO. 17 OUTFIT.

No. 580. This pump is especially designed for heavy and efficient work, and can be connected direct on the crankshaft of any gasoline engine by means of a pinion wheel, which is furnished with the pump, thus making the most complete outfit ever offered, for the reason that it only requires the small floor space of 30x40. Fitted with strainer, pressure gauge and relief valve, double shut-off discharge and suction nipple. **Price, $45.00.**

MYERS "HANDY."

Similar to Ideal, but without extra pressure tank. **Price, $25.00.**



MYERS POWER SPRAYERS.

The use of an efficient power sprayer assures a better crop because the spraying can be done more thoroughly and more rapidly, making it possible to spray just at the proper stages in the development of the fruit blossoms. A power sprayer will very soon pay for itself on any orchard two acres or over.

The **No. 17 Junior,** illustrated, is equipped with a 100-gallon tank, all steel truck and double-acting pump, belt driven (engine not included), one Myers Spray Gun, 25 ft. High-pressure Spray Hose, pressure gauge, agitator, belt tightener, relief valve, etc. **Price, $175.00.**

No. 15 Junior. Same as No. 17, but without truck. **Price, $110.00.**

No. 21 Power Outfit. With Duplex (double cylinder) pump, without steel truck. **Price, $165.00.**

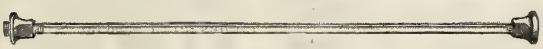
Engine Prices on application. 1½ to 2 h. p. required.

IDEAL COMPRESSED AIR WHEELBARROW SPRAYER.

The "One-Man" outfit. Pump is fastened to top of tank by spider casting, and can be removed by loosening one thumb screw, and is equipped with mechanical agitator. Discharge equipment: 10 ft. ⅜" Ideal Spray Hose, 8 ft. ¼" Iron Pipe Extension, Fog Nozzle and a leakless shutoff.

The Ideal is well designed and will develop a higher pressure than any other Wheelbarrow Sprayer. **Price, $36.00.**

EXTENSIONS.



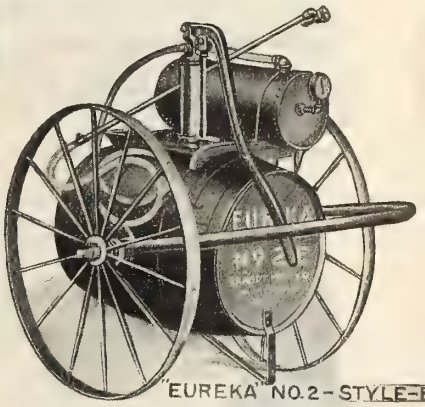
Extension Pipe, 8-ft. length, ¼-inch steel, with couplings. **Price, 50c.**
Assortment of spray Pump Fittings are carried in stock.

BAMBOO EXTENSION

The Bamboo Extension as illustrated is made of selected bamboo 8 and 10 feet in length, through which is placed a 5/16 brass tube, equipped with brass shut-off lever, and has a wide shield on top to prevent solution running down the pole. **Price, 8 or 10 ft., complete, $5.50.**

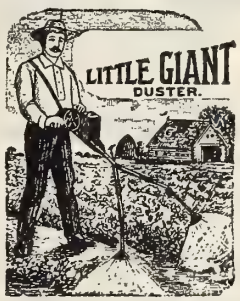
LOW DOWN SPRAY PUMP.

R309B. This is an entirely new type of pump, with double the power of any other. They are fitted with removable 2½-inch brass cylinders and poppet valves, and are adapted for the use of hot or cold mixtures. They are built for use in extensive spraying operations of any kind, as their capacity is sufficient to carry from 1 to 3 leads of hose. Complete with 6 feet wire-bound suction hose, 15 feet of 7-ply discharge hose, 8-foot extension pipe and one Fembro nozzle. **Price, $40.00.**



EUREKA HIGH-PRESSURE SPRAYING OUTFIT.

One of the best spraying contrivances on the market. Mounted on a very substantial all-steel cart; equipped with high-pressure steel tank, double-acting force pump, air gauge and one lead of 15-foot ½-inch 7-ply hose and extension pipe. **Price, $45.00.**



LITTLE GIANT DUSTERS.

This Blower is the highest development of all Powder Guns and Dusters now in use. Covers two rows perfectly and can be adjusted to any desired width. Each machine is furnished with two tubes, five nozzles and strap, and weighs 6 pounds. **Price, $12.00.**

DICKY DUSTER.

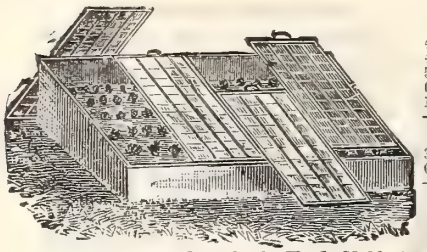
Is indispensable for dusting vines and plants of all kinds. **Price, 45c.**

ACRE-AN-HOUR SIFTER.

For applying Bug Death, Slug-Shot, etc., to any kind of plants and bushes as fast as a man can walk. Will cover perfectly a plant 3 ft. in diameter. **Price, $1.00.**

ACME DRY POWDER GUN.

Applies all kinds of insect powder in any desired quantity. **Price, complete with spreader, $1.25.**



Unglazed Hot Bed Sash. **Each $2.00.**
Hot Bed Glass, 8x10 and 10x12. **Per box, $3.25.**

PEERLESS GLAZING POINTS.
These will positively keep the glass from sliding and are interchangeable, right or left. The use of a special pincers is recomended. **Price, per box of 1000, 65c.**

PINCERS.
Price, per pair, 70c; by mail, 75c.

PUTTY BULBS.
A very useful tool for applying liquid Putty and Mastica for glazing Sash or Greenhouses. **Large size, $1.25.**

MASTICA.
For glazing greenhouses, sashes, etc., new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. **Price, ½ gal., $1.50; 1 gal., $2.50.**

MASTICA GLAZING MACHINE.
Price, $2.25.

TWEMLOW'S OLD ENGLISH GLAZING PUTTY.
Semi-Liquid.
For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds. **16-pound can (1-gallon capacity), $3.25.**

HOT BED MATS.
Burlap. Made of strong burlap interlined with wool.

Size, 40x76 inches, each	$2.50
Size, 76x76 inches, each	3.50

GALVANIZED IRON WATERING POTS.
Made of heavy galvanized iron, with removable Sprinkler.

4 quarts	$0.50
6 quarts	.60
8 quarts	.70
10 quarts	.85
12 quarts	.95
16 quarts	1.05

GUARANTEE RUBBER HOSE.
Full ¾-inch Moulded Hose made by one of the most reliable factories in the U. S.; constructed out of the very best materials—first class cotton fibre and brand new live rubber. This brand is giving entirely satisfactory service to many of our florist customers who need high quality material to withstand the hard usage of the greenhouse. Furnished in any length. **Price, 15c per foot. Best quality Wrapped Hose, 12c per foot; 50 feet, $5.50.**

HOSE NOZZLES.

Mystic Spray Nozzle	$0.60
Justrite Spray Nozzle	.75

MARLINE.
Made from Indian Hemp and the best product in making Straw Mats. Furnished in 1 and 5-lb. balls. **Per pound, 25c.**

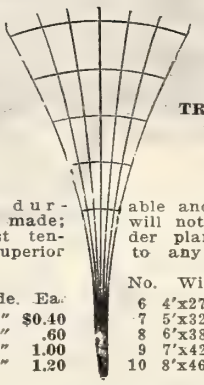
POT LABELS.

	Plain	Painted
4 inch, per 1000	$1.40	$1.90
4½ inch, per 1000	1.55	2.10
5 inch, per 1000	1.80	2.35
6 inch, per 1000	2.30	2.80
12 inch, per 100	.70	

TREE LABELS.

3½ inch, iron wired	$1.80
6 inch, iron wired	3.50

HARD WOOD FAN TRELLIS.



Very durable and artistically made; the most tenable and artistis far superior to any metal trellis. will not scorch der plant, and

No.	Wide.	Ea.
2	24″x10″	$0.40
3	30″x13″	.60
4	36″x16″	1.00
5	42″x21″	1.20
6	4′x27″	$1.60
7	5′x32″	2.00
8	6′x38″	2.50
9	7′x42″	3.00
10	8′x46″	3.50

RAFFIA.
The best material for tying plants, vines, etc. **Per pound, 25c; 10 pounds, $2.00.**

EARTHEN FLOWER POTS.
We carry a complete line in stock and quote as follows:

	Doz.	100	Stands
2 inch	$0.15	$1.10	
3 inch	.25	1.85	
4 inch	.40	2.80	$1.50
6 inch	1.00	7.50	3.60
8 inch	2.50	18.25	5.40
10 inch	5.00	38.00	9.00

WOOD PLANT STAKES.
Particular Gardeners prefer the wood stakes for their heat-resisting qualities.

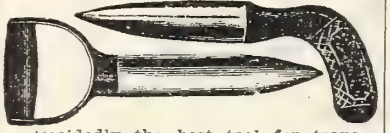
Light Plant Stakes.

Height	Each	Doz.	100
1½ ft.	$0.02	$0.20	$1.50
2 ft.	.03	.30	2.15
2½ ft.	.05	.45	3.25
3 ft.	.07	.70	4.75
4 ft.	.09	1.00	5.25

Heavy Dahlia Stakes.

Height	Each	Doz.	100
4 ft.	.12	1.50	12.00
5 ft.	.14	2.00	15.00
6 ft.	.15	2.25	18.00

DIBBLES.



Decidedly the best tool for transferring plants.

All steel, D-handle	$0.65
All steel, bent handle	.50
Wood bent handle, steel point	.50
Steel points for same	.30

GALVANIZED HARD STEEL WIRE PLANT STAKES.
Very durable, neat and strong, and extensively used for carnation and rose beds. No. 9 gauge.

Height	Per 100	Per 1000
3 feet	$1.00	$ 8.25
3½ feet	1.15	9.60
4 feet	1.30	10.90
5 feet	1.60	13.70

GARDEN TROWELS.

6-in. Steel Blade, Malleable Shank. **Each, 15c.**
6-in. Extra Strong, Hollow Back. **Each, 35c.**
6-in. Solid Steel, Bronzed and Polished. **Each, 50c.**
6-in. American Solid Steel, Hollow Back, finely finished. **Each, 50c.**
5-in. Solid Steel, Forged Shank. **Each, 60c.**
6-in. Florists' favorite, Solid Steel, Solid Steel Forged Shank. **Each, 75c.**

TRANSPLANTING TROWEL.

No. 2, 5-inch blade	$0.20
No. 1, 8-inch blade	.30

RAPID PLANT SETTERS.
These setters are giving entire satisfaction to many large growers of Tomatoes, Cabbage, Tobacco, etc. They take the place of the dibble in making the hole; the plant slides through a slot into the ground and is watered all in one operation. The plants are fed into the setter from a basket which the planter carries and the work can be done standing almost erect. A great time saver and more satisfactory than hand work. **Price, $6.00.**

MOUNTED GRINDSTONES.

Climax. Frame is a combination of wood and steel, well finished, equipped with hand crank and treadle. **Price, $8.25.**
E. L. I. Wood. **Price, $8.00.**
Invader. $9.25.
Victor. $8.50.
King. The frame is constructed of tubular steel, very rigid, ball bearing, adjustable seat, and equipped with treadles. Stone 20-22 inches diameter by 2-inch face. **Price, $9.50.**
Cycle. Of angular steel, well braced, with sliding seat, ball bearing, bicycle treadles. Stone is 20-22 inches in diameter by 2-inch face, of the best Berea grit. **Price, $8.25.**
Loose Grindstones. 5c per lb.

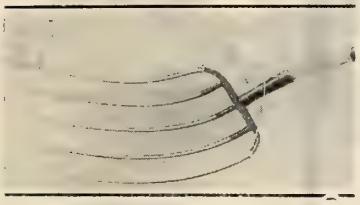
Grindstone Fixtures—Ball Bearings. Per set, $1.75.

WHEEL BARROWS.

Garden Barrows.
Substantially made of seasoned wood, firmly bolted and braced.
No. 20. Steel wheel, wooden body. **$5.75.**
No. 10. Steel wheel, wooden body. **$5.50.**
Buch's No. 1. Size of body 30 inches long, 24 inches wide in front and 25 inches in back. Side-boards 12 inches high. **$8.50.**
Buch's No. 2. Size of body 28 inches long and 20 to 24 inches wide. Side-boards 12 inches high. **$7.00.**
Buch's No. 3. 26 inches long, 19 to 22 inches wide. Side-boards 12 inches high. **$6.50.**
No. 8 Canal Barrow. With steel spoke wheel, full-sized bent tray, planed, cleated and strapped together well finished. **$4.00.**

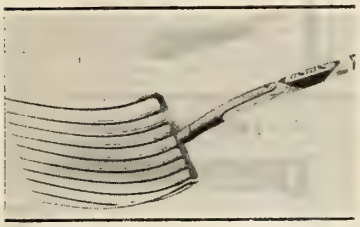
Steel Tray Barrows.
No. 17B. Size of tray 32x27 inches; capacity 4 cu. ft. **$7.35.**
No. 21. Light steel tray cement and dirt barrow. **$5.75.**
No. 25. All steel, tubular handles, riveted tray, high front to prevent spilling. Specially built for heavy work and rough usage. **$8.25.**

OAT AND BARLEY FORKS.



All steel. **Each, $2.00.**

GENERAL UTILITY FORK, D Wood Handles.

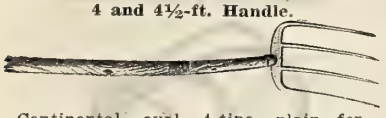


Stone Fork, 10 square tines. **Price, $2.15.**
10-tine, 15-inch Diamond tine, scoop shape, heavy strap ferrule and cap, wood D-handle. **Price, $2.40.**
Coal Forks, 12-tine, 14 inches long, D-handle, strap ferrule. **Price, $2.25.**
Coal Forks, 14-tine, 15 inches long, D-handle, strap ferrule. **Price, $3.00.**
Ensilage Forks, D-handle, with strap ferrule and cap, 8-16 inch tines. **Price, $2.25.**

HEAVY MILL AND STREET FORKS.

4 heavy, 16-inch Diamond tines, wood D-handle. **Price, $2.10.**
5 heavy, 15-inch Diamond tines, wood D-handle. **Price, $2.50.**
6 heavy, 14-inch Diamond tines, wood D-handle. **Price, $2.80.**

MANURE FORKS. 4 and 4½-ft. Handle.



Continental, oval, 4-tine, plain ferrule. **Price, $1.00. 4½-ft. handle, $1.10.**
Continental, oval, 4-tine, strap ferrule. **Price, $1.20.**
Continental, oval, 5-tine, strap ferrule. **Price, $1.40.**
Herkheimer, oval, 4-tine, strap ferrule. **Price, $1.25.**
Herkheimer, oval, 5-tine, strap ferrule. **Price, $1.40.**
Herkheimer, iron D-handle, 5-tine, strap ferrule. **Price, $1.30.**
Herkheimer, 4½ ft. handle, 6-tine, strap ferrule. **Price, $1.50.**

MANURE FORKS, D-Handle.

Continental, oval, 4-tine, light strap, mall. D-handle. **Price, $1.25.**
Oval, 5 18-inch heavy tines, cap ferrule, mall. D-handle. **Price, $1.70.**
Extra heavy, 4 16-inch Diamond tines, full strapped, wood D-handle. **Price, $2.00.**
Extra heavy, 5-tines, as above. **$2.60.**
Extra heavy, 6 14-inch Diamond tines, full strapped. **Price, $2.90.**

POST-HOLE DIGGERS.

Baldwin Brand. **Price, $1.75.**

EARTH AUGER.

No. 1. Bores holes 8 to 14 inches in diameter, 3½ ft. deep. **Price, $6.00.**
No. 2. Bores holes 8 to 16 inches in diameter, 3½ ft. deep. **Price, $6.75.**

HAY FORKS.

Continental, 2-tine, plain ferrule, 6-ft. straight handle. **Price, $1.10.**
Continental best steel, 3 tines, 6-ft. straight handle. **Price, $1.25.**

SPADING FORKS, D-HANDLE.

Continental, heavy, polished angular tines. **Wood D-handle, $1.65; Iron D-handle, $1.45.**

HOES.

Solid Socket, all steel. Size, 6, 6½, 7, 7½ inch. **Price, 85c.**
Solid Shank, all steel. Size, 6, 6½, 7, 7½ inch. **Price, 75c.**
Malleable Iron Socket, steel blade. **Price, 50c.**
Planter Hoe, heavy handled, large eye, suitable for stiff ground. **Price, $1.00.**
Mattock Hoe, double pointed, very useful. **Price, 75c and 85c.**
Ladies Hoe, 5-inch blade, 4-ft. handle. **Price, 60c.**
Weeding Hoes. **2-prong, 40c; 4-prong, 85c.**

WARREN HOES.

Heart-Shaped.

The finest Weeding and Garden Hoe made; very suitable to cultivate strawberries.

Large size, 7½ inch. **Price, $1.00.**

PRONG HOES OR POTATO HOOKS.

4 broad tine, solid steel. **Price, 90c.**
5 round tine, solid steel. **Price, $1.10.**
6 flat tine, solid steel. **Price, $1.25.**
2-prong extra heavy nursery hoe. **Price, $1.00.**

LAWN RAKES.

Lawn Queen.—24 steel wire teeth, reversible head. **Price, 75c.**
The Olsen.—The teeth are so constructed that when driven into the head they will never shrink from their place and cannot fall out. **Price, 75c.**

STEEL GARDEN RAKES.

Bow Shank Curved Teeth, gold bronze finish. **Price, 12 teeth, 90c; 14 teeth, $1.00; 16 teeth, $1.10.**
Goose Neck Shank, bronze finish. **Price, 12 teeth, 75c; 14 teeth, 85c; 16 teeth, 90c; 18 teeth, $1.00.**

Malleable Iron Bow Shank. **Price, 10 teeth, 40c; 12 teeth, 45c.**

SPLIT BOW WOOD LAWN RAKE. Hand-made. **Price, 50c.**

Wood Hay Rakes, wire bow, hand made. **Price, 35c.**

SCYTHES.

Best American Grass. **Price, $1.50.**
Bush or Brier Scythes. **Price, $1.50.**
English T. Waldron, 34, 36 and 38-inch. **Price, $2.25.**

SNATH, OR SCYTHE HANDLES.

Two Ring, plain. **Price, $1.75.**
Patented Fasteners. **Price, $1.75.**

GRASS AND BRUSH HOOKS.

American Grass Hook. **Price, 60c.**
Draw Cut Grass Hook. **Price, 75c.**
German Grass Hook. **Price, 60c.**
Best English Grass Hook. **Price, 90c.**

BRUSH HOOKS.

For shrubbery and underbrush.
Tempered steel. **Price, $1.75.**
Imported solid socket. **Price, $1.25.**
Imported solid socket, with Cutter. **Price, $1.40.**

LIGHTNING HAY KNIFE.

Crucible steel. **Price, $1.40.**

HAND-MADE GRAIN CRADLES.

Hand-made, 4-finger Cradle, with best American scythe. **Price, $5.00.**
With English Waldron scythe. **Price, $5.75.**

SHOVELS.

Solid steel strap, D-handle, round point. **Price, No. 2, $1.40; No. 3, $1.50.**
Solid steel strap, square point, long handle. **Price, No. 2, $1.40; No. 4, $1.50; No. 6, $1.65.**
Solid steel socket, D-handle, square point. **Price, No. 2, $1.00; No. 4, $1.40; No. 6, $1.50.**
Solid steel, full strap, extra quality. **Price, No. 2, $1.50.**
Knox All, round point, solid back all steel. **Price, No. 2, long handle, $1.40.**
Semper Idem. **Price, No. 2, long handle, $1.60.**

HOES—Acme.

For weeding and cultivating, double prong. 4½-in. blade. **Price, 80c.**
Acme W. & C., single prong, polished steel. **Price, 65c.**
Onion or weeding, two-prong, polished steel. **Price, 45c.**

SPADES.

Semper D-handle, carbon steel. **Price, $1.60.**
Nursery, extra heavy D-handle, full strap. **Price, $2.00.**
Knoxall, long handle; very substantial. **Price, $1.40.**

HAND WEEDERS.

40c. 25c. 20c. 10c. each.

HAND GARDEN FORKS.

No. 2. 9½ inches long, hardwood handle, 3 tines, Japanned. **Price,** 25c.

No. 3. 10½ inches long, hardwood handle, 4 tines, Japanned. **Price,** 50c.

ASPARAGUS KNIFE.

Made of solid steel; see the cutting point. **Price,** 45c.

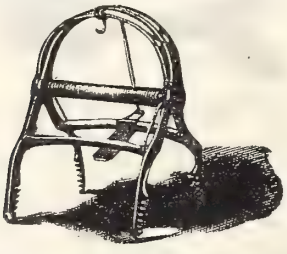
ASPARAGUS BUNCHER.

Price, ...$3.50

THE RODERICK MOLE TRAP.

Self-setting by pressing down on lever. Very convenient feature, found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. **Price,** 85c.

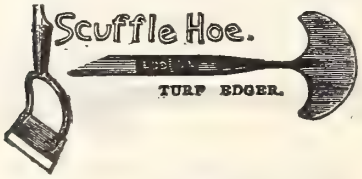
OUT-O'-SIGHT MOLE TRAP.



This, while possessing all the good qualities of other traps, is especially adapted for setting under glass in hot beds. **Price,** $1.25.

THERMOMETERS.

8-inch, Tin, Japanned. **Price,** 50c.
10-inch, Hardwood Cabinet. **Price,** 60c.
12-inch, Tin, Japanned, Hot-Water Reg. **Price,** $1.00.
10-inch Cottage, with Barometer. **Price,** 35c.
Mushroom Bed and Hot Bed, Brass Point. **Price,** $2.00.



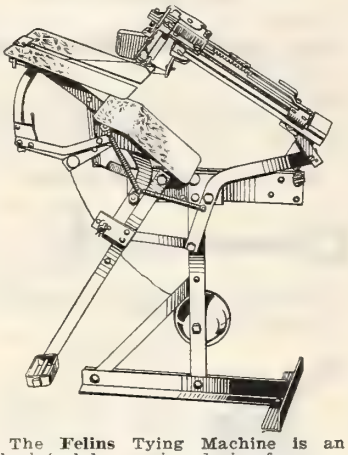
AMERICAN EDGING KNIVES.

All Steel. **Price,** $1.00.

SCUFFLE or PUSH HOES.

Price, $1.00.

VEGETABLE TYING MACHINE.



The **Felins** Tying Machine is an absolute labor saving device for market gardeners and florists; doing five hours of tedious hand work in one hour. It ties any size bunch from one-quarter to five inches as tightly as desired and adjusts itself automatically to any size bunch. Simple and durable in construction, speedy, and can be operated by a child. Write for further information. **Price,** $75.00.

75 75 75 85 85 $1.15

PRUNING SHEARS.

Malleable Handle Steel Plate. **Price,** 50c and 60c.
Solid Steel, 8-inch. **Price,** 75c.
Solid Steel, see illustration. **Price,** $1.00.
Imported French Steel. **Price,** $1.75.
Imported IXL. **Price,** $2.00.

BUCKEYE PRUNERS.

No. 1 18-inch. **Price,** $1.50.
No. 10 18-inch adjustable. **Price,** $1.75.
No. 3 36-inch, extra heavy. **Price,** $2.25.
No. 26 Oakland. **Price,** $2.75

FRUIT PICKER.

Made of galvanized hard-steel wire, shaped so as to imitate the human hand. Without pole. **Price,** 35c.

GRAFTING WAX.

Trowbridge Brand. ... ...

Price, ¼ lb., 15c; lb., 50c.

WATERS' IMPROVED TREE PRUNER.

8 ft. $1.50
10 ft. 1.65
12 ft. 1.80

Extra Knives, 30c, each.

LITTLE GIANT PRUNING HOOKS.

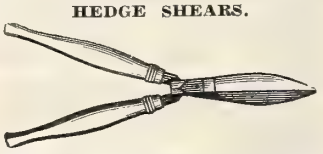
Without pole.
Extra Heavy.

$2.50 each.

PRUNING SAW.

16-inch $1.20
18-inch 1.50
20-inch 1.75

HEDGE SHEARS.



8-inch American $1.50
10-inch 2.25
8-inch English 2.50
9-inch 3.00
10-inch 3.25
12-inch 3.75

With Notch, 25c extra.

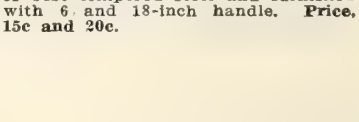
NORCROSS CULTIVATOR.

The Norcross is an adjustable garden cultivator of 5 blades. A very handy garden tool. By removing the center tooth you can straddle the rows. The teeth can be made to set close or wide apart. Can be detached from handle and attached to any wheel hoe. **Price,** $1.00.

MIDGET NORCROSS.

3-Prong, short handle. **Price,** 40c.
3-Prong, long handle. **Price,** 75c.

MAGIC WEEDER.



A perfect and efficient tool, made of best tempered steel and furnished with 6 and 18-inch handle. **Price,** 15c and 20c.

OLIVER CHILLED PLOWS.
Wood or Steel Beam.

Plows.

A1 Light, one horse	$ 8.75
B Medium, one-horse	10.00
10 Full, one-horse	12.75
13 Heavy, one-horse	14.25
19 Light, two-horse	15.75
20 Medium, two-horse	16.00
40 Two or three-horse	17.50
E Full, two-horse	20.00
Wheels, complete, each	$1.50 and 2.25
Jointers, complete, each	$3.25 and 3.50

SYRACUSE CHILLED PLOWS.

John Deere Syracuse Plows are the result of forty years study and experience in plow manufacture and "Quality" always has been the motto of the Syracuse Plow Co.

The Company has made a special study for years of shapes and the assembly of different materials in the same plow, with the purpose of fitting properly a particular plow for a particular section.

Syracuse plows have proved their worth through years of use. They are scientifically designed, built of the best material obtainable and are equipped with attachments which will permit of a fine, accurate and reliable adjustment for governing the plow.

One-horse Plows.

No. 51L. Right, wood beam, light, one-horse, making furrow 2 to 5 inches deep and 8 to 10 inches wide; with jointer and wheel. **$15.50.**

No. 52L. Right, wood beam, medium, one-horse, making furrow 3 to 5½ inches deep and 9 to 11 inches wide, with wheel and jointer. **$17.50.**

No. 53L. Right, wood beam, heavy, one-horse or light two-horse, making furrow 3 to 6 inches deep and 9 to 12 inches wide, with wheel and jointer. **$19.50.**

Two-horse Plows—Wood Beam.

No. 603. Right, wood beam, light, one-horse, making furrow 4½ to 6½ inches deep and 10 to 12 inches wide, with jointer and wheel. **$21.75.**

No. 602 Right, and No. 502 Left. Wood beam, medium, two-horse, making furrow 5 to 7 inches deep and 11 to 14 inches wide, with jointer and wheel. **$22.50.**

No. 601 Right, and No. 501 Left. Wood beam, heavy, two-horse or light, three-horse, making furrow 5½ to 8 inches deep and 12 to 16 inches wide, with wheel and jointer. **$23.25.**

Two-horse Plows—Steel Beam.

No. 401 Right, and No. 301 Left. Steel beam, making furrow 5 to 8 inches deep and 12 to 15 inches wide, with wheel and jointer. **$23.25.**

EMERSON-BRANTINGHAM TRACTOR PLOWS.

The **E-B No. 102E** is a most popular tractor plow for use with Fordson and other tractors. It has not been very extensively introduced in this section but it is sure to replace some plows now in use when its advantages are known. Built on principles developed through years of practical plow building experience, this implement is theoretically and mechanically constructed to do high class work. Full information and prices cheerfully given.

We always carry in stock a full line of plow repairs at popular prices.

SHOVEL PLOWS.

Steel beam, single shovel. **Price, $5.00.**

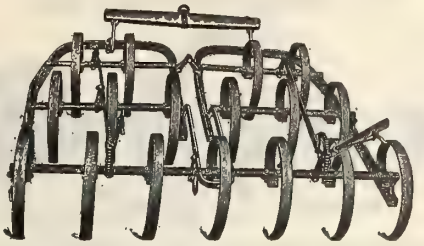
Steel beam, double shovel. **Price, $5.00.**

Steel beam, triple shovel. **Price, $6.75.**

BOSS DRAG SCOOPS.

No. 1. With runners	$9.50
No. 2. With runners	9.15

SYRACUSE SPRING TOOTH HARROW.



This Steel Frame Spring Tooth Lever Harrow is now a favorite with every farmer. The frame is made of angle steel and the bottoms are equipped with detachable runner shoes, which can be renewed when they become worn. Adjustable to any depth.

15-Tooth 2 Section Cuts, 53-inch	$21.40
17-Tooth 2 Section Cuts, 64-inch	23.00
23-Tooth 3 Section Cuts, 87-inch	32.50

SYRACUSE CULTIVATOR.

7-Tooth Diverse Cultivator, with regular spring teeth, adjusted by two levers. Very efficient one-horse tool. Weight 60 lbs. **$7.50.**

WOOD FRAME SPRING TOOTH HARROW.

This is the well-known, favorite Perry Harrow. Steel lined, guarded, protected bolt heads, perfect tooth seat.

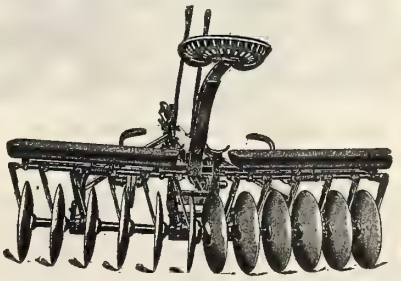
14-Tooth Harrow	$13.25
16-Tooth Harrow	15.75
18-Tooth Harrow	17.00
20-Tooth Harrow	19.50

ALL-STEEL HARROW.

A spike-tooth Harrow with lever up. A smoothing Harrow with lever down. Made entirely of steel. The teeth can be instantly set at any angle from forward pitch to straight up or slanting backward.

One-Horse, One Section, 4 ft. Cut	$8.25
Two-Horse, Two Sections, 8 ft. Cut	19.00
Two-Horse, Two Sections, 10 ft. Cut	21.00

DISK HARROWS.



The use of Disk Harrows has become a matter of necessity to the successful farmers.

Emerson All Steel Special:

8 Disk, 16 inches. 5-foot	$38.50
10 Disk, 16 inches	41.00
12 Disk, 16 inches	46.00

If Scrapers not taken deduct $2.25.

TONGUE TRUCK FOR DEEP DISK HARROW

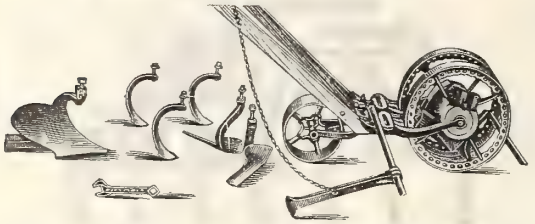
The Harrow Truck is a new device and enables the user to make a short turn and relieves the neck weight entirely. **$8.00.**

EMERSON-BRANTINGHAM DISK HARROWS.
For Horse and Tractor Power.

If you are farming to make money, you cannot ignore the advantages and the economy of labor-saving machinery, and the farmer who labors along without the good implements that modern conditions demand, pays a higher price in the end.

The **E-B Tandem Disk Harrow** enables you to do more work in shorter time and with less man labor. With one of these double action machines one man can do the work of two men with single disks in the same length of time and the work will be done better. Besides it may be equipped with either a horse or tractor hitch, which is an advantage when both kinds of power are available. If desired, the rear section may be detached and the front section used alone as a horse or tractor-drawn single disk harrow. Many of our customers operating Fordson Tractors now have these harrows in use and are highly pleased with them. Quality and usefulness are built in. Let us send you illustrated literature and prices.

PLANET JR. COMBINED DRILL, NO. 1 SEEDER AND WHEEL HOE.



This is the oldest type of Planet Jr. Seed Drills, and is still very popular.
No. 1. As illustrated above. **Price, $15.00.**
No. 2. Same as above, but Drill Seeder only. **Price, $13.00.**

No. 4. Price, complete, $18.00. Weight, 50 lbs.

As a Seeder only, **$14.50.**

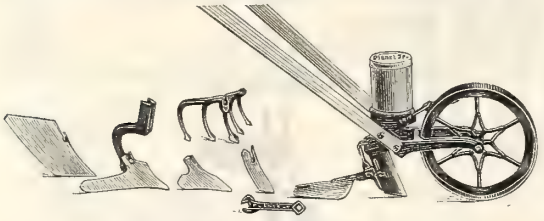
Holds 2½ qts. of seed. The most popular of all seeders. Always gives entirely satisfactory results.

COMBINED HILL AND DRILL SEEDER AND CULTIVATOR NO. 4.

COMBINED HILL AND DRILL SEEDER, DOUBLE AND SINGLE WHEEL HOE NO. 25.

Holds 2½ quarts. It combines in a most practical way the No. 4 Drill and No. 12 Double Wheel Hoe. **Price, $22.00.**

PLANET JR. COMBINED DRILL, SEEDER AND WHEEL HOE.



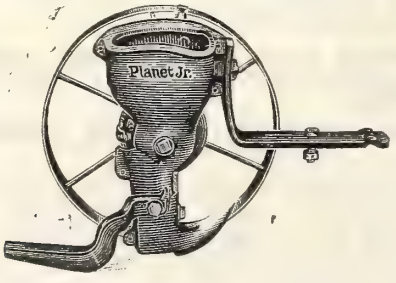
No. 31. Price, complete as illustrated, $12.50

No. 31D. As a Seed Drill only. **Price, $10.00.**

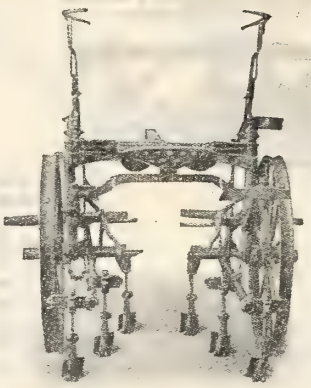
Another Plant Jr. labor-saving tool intended for the small grower. Possesses all of the good qualities and accessories of the larger machines.

HILL AND DRILL SEEDERS NO. 3 AND NO. 5.
Recommended for the general market gardener. 15-inch and 16½-inch driving wheels. Seed hopper capacity 3 and 5 quarts. **Price, No. 3, $17.50. No. 5, $20.00.**

NO 35 PLANET JR. SEEDER ATTACHMENT FOR WHEEL HOES AND GARDEN PLOWS.



Particularly useful to the home gardener, as it is just as accurate and efficient as the larger seeders but designed for sowing short rows. Holds one pint of seed and plants every seed, even to the last one at the proper depth and distance apart. Planting with a seeding machine saves time as well as seeds and the crop is much more readily cultivated and kept free from weeds. Quickly attached by a single bolt to any Planet Jr. Wheel Hoes or Garden Plows. **Price, $6.00.**

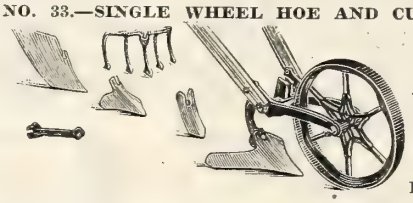


EMERSON AUTO-PIVOT CULTIVATOR NO. 48.

Has the celebrated Emerson foot-lift device. Can be raised or lowered, and guided with the feet, leaving the hands free to manage the team. Has Roller and Ball Bearings. Can be used as a surface cultivator or a corn plow. Wheels can be widened or narrowed. Furnished in 6 or 8 shovels and has no complicated balancing devices. The gauges are nearer the team than are other makes and the draft is direct to the beams instead of the wheels. This machine has proven satisfactory wherever it has been placed.

Circular is yours for the asking.
6-Shovel Spring Hoe **$53.00**

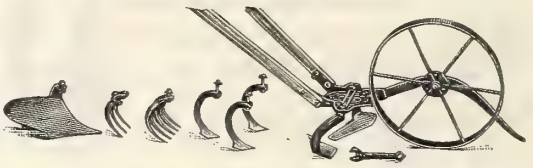
NO. 33.—SINGLE WHEEL HOE AND CULTIVATOR.



Will delight the suburbanite. Boys and women, young and old, will find in this tool a light-running wheel hoe. **Price, $6.00.**

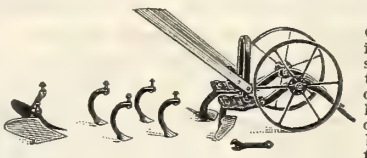
NO. 19.—IRON AGE HAND CULTIVATOR. Price, $4.75.
VICTORY IRON AGE HAND PLOW. Price, $4.00.

NO. 16 SINGLE WHEEL HOE, CULTIVATOR, RAKE AND PLOW.



Equipment: One pair of 6-inch hoes, three cultivator teeth, one large garden plow, one 7-inch rake, one 4-inch rake, one leaf guard. All oil tempered. **Price, $9.25.**

NO. 12.—DOUBLE AND SINGLE WHEEL HOE.



Equipment: One pair of 6-inch hoes, four steel cultivator teeth, one pair of plows, two leaf lifters. All oil tempered. **Price, with attachments as in Cut, $11.50.**

NO. 13.—WHEEL HOE.
Most useful. Has same frame, wheels and handles as **No. 12,** but has for equipment one pair of 6-inch hoes only. **Price, $8.25.**

NO. 17.—SINGLE WHEEL HOE.
Is of the same construction as **No. 16,** omitting the two rakes. **Price, $7.75.**

NO. 17½.—SINGLE WHEEL HOE.
Equipment. One pair of 6-inch hoes, three steel cultivator teeth, one leaf lifter. **Price, $7.00.**

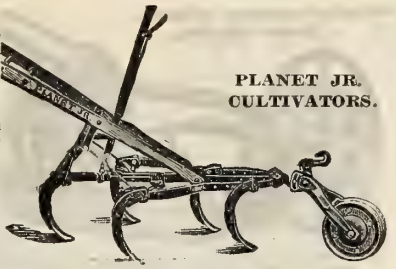
NO. 18.—SINGLE WHEEL HOE.
Frame and wheel as **No. 16,** but has for equipment one pair hoes only. **Price, $5.75.**

NO. 19.—SINGLE WHEEL HOE CULTIVATOR AND PLOW.
Is strong, well made, with 15-inch-high wheel, which makes it easy running; equipped with one 2-inch cultivating tooth, one 4-inch cultivating tooth, one 5-inch sweep, one 10-inch sweep and one plow. **Price, $5.75.**

Are more widely known and bear the highest reputation of any make.

No. 9 Plain Cultivator, with lever expander; weight 63 lbs. **Price, $13.50.**

Without Wheel. **Price, $11.50.**



PLANET JR. CULTIVATORS.

NO. 4.—PLAIN CULTIVATOR.

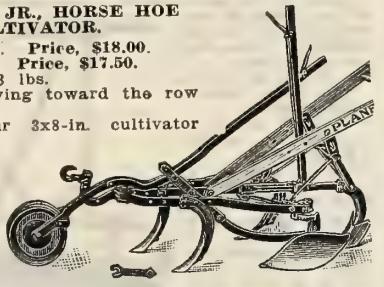
Has patent expander in place of lever; weight complete with wheel, 56 lbs. **Price, $11.25.**
Without wheel, 49 lbs **Price, $9.25.**

NO. 100D.—PLAIN CULTIVATOR.

Entirely new design. The frame is very rigid and light; the expander very simple, strong and convenient. It is exactly right for the medium farm and market gardener. **Price, $8.00.**

NO. 8.—PLANET JR., HORSE HOE AND CULTIVATOR.

With Steel Wheel. **Price, $18.00.**
With Cast Wheel. **Price, $17.50.**
Packed weight, 83 lbs.
As used for plowing toward the row and for hilling.
Equipment: Four 3x8-in. cultivator steels, one 4x8 inch cultivator steel, two 6-in. hillers, one 7-in. shovel, lever wheel, lever expander, depth regulator.



NO. 9.—HORSE HOE.

Very similar to the No. 8, except that it has a plain wheel instead of the lever wheel and the depth regulator. With new Steel Wheel, weight 70 pounds. **Price, $15.50.**
Without Steel Wheel, weight 64 pounds. **Price, $13.50.**

TWELVE-TOOTH HARROW, WITH NO. 4 EXPANDER.

No. 92.—With new Steel Wheel, weight 53 lbs. **Price, $11.75.**

No. 92.—With Cast Wheel. **Price, $11.25.**

No 92D.—Without Wheel, weight 46 lbs. **Price, $9.75.**

TWELVE-TOOTH HARROW, WITH NO. 9 LEVER EXPANDER.

No. 90.—With new Steel Wheel. **Price, $20.00.**

I. A. CULTIVATORS.

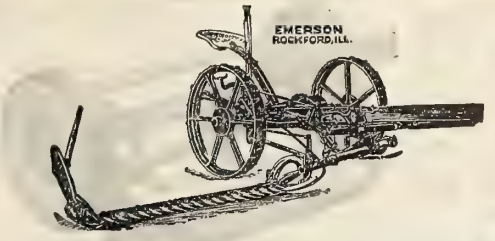
Baltimore Cultivator, plain. **Price, $5.50.**
I. A. extra heavy Cultivator, plain. Bent frame. **Price, $7.00.**
Baltimore Cultivator, with lever. **Price, $7.00.**
Steel Wheel, $1.50 extra.
I. A. Cultivator and horse hoe combined, as illustrated. **Price, $9.50.**

I. A. COMBINED HARROW AND CULTIVATOR.

A splendid tool for cultivating crops in rows; thoroughly pulverizes and loosens the soil without throwing dirt on the small plants. The teeth are reversible and can be changed in 4 different positions. **Price as shown in illustration, $7.00.**

Price, with lever, $9.00.

HAYING TOOLS AND IMPLEMENTS.



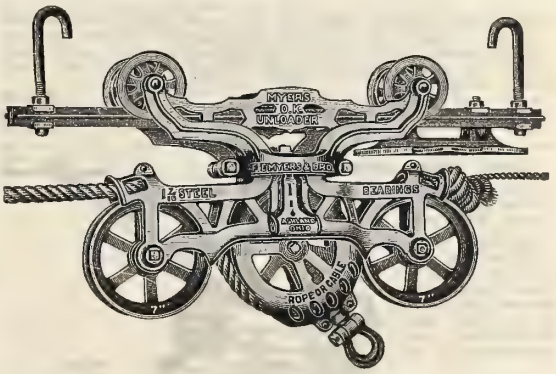
EMERSON-BRANTINGHAM STANDARD MOWER.

E-B Standard Mowers are more easily handled, run lighter and are more durable than any other mowing machine. The manner in which the cutter bar is carried on the wheels, together with a proper distribution of the weight, greatly increases the traction power of the machine, overcomes side draft and weight on the horses' necks, giving it a powerful cutting capacity which enables it to cut through the heaviest grass without materially increasing the draft. The gear and driving mechanism is the three motion gear and is especially valuable in obtaining the high speed required without undue strain on any portion of the machine. This mower has many other points of superiority and we would be pleased to give you full information. **Price, 5-foot, $75.00. Prices of other sizes on request.**

EMERSON-BRANTINGHAM SELF-DUMP RAKE.

The only absolute automatic lock-down self-dump rake. Built for light draft, efficient work and durability.

8-ft.,	20	teeth	$35.00
8-ft.,	25	teeth	35.75
9-ft.,	23	teeth	37.25
9-ft.,	28	teeth	38.25



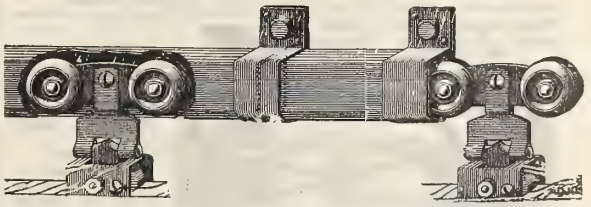
Myers' Double Lock Unloaders.

No. 209. Represents the new and latest improved Hay Carrier. Equipped with larger and heavier rope sheaves than any previous pattern made. **Price, $10.50.**

MYERS' CLOVER LEAF UNLOADER.

No. 114. This is the well-known reversible car for double steel track. The locking device grasps the fork pulley on either side and permits it to swing free. **Price, $8.50.**
Double Steel track. Price per foot, 25c.
Hanging Hooks. For double steel track. **Price, each, 20c.**
Rafter Brackets. Wrought or **malleable** iron. Price, **each, 7c.**
Pulleys, 6-inch; wood sheave; **malleable** iron frame. **Price, each, 80c.**
Pulleys. Knot-passing swivel; 6-inch **malleable** iron sheave. **Price, each, 90c.**
Double Harpoon Forks, all steel. **Price, each, $2.25 to $4.50.**
Floor Hooks, ¾-inch wrought iron. **Price, each, 15c.**

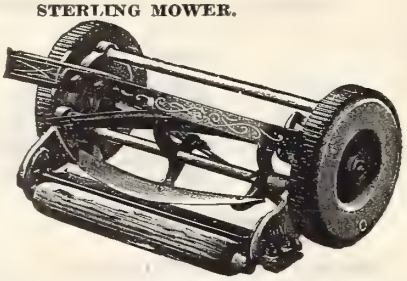
WAGNER BARNDOOR HANGER.



Extra Heavy All Steel and Self-cleaning.

Tantem Ball-bearing Rollers, per set	$2.00
No. 15 Tubular Steel Track, per foot	.25
No. 100 Everlight Steel Track, per foot	.30
Steel Brackets, each	.20

STERLING MOWER.



Simple in construction, light running, made of the very best material throughout, and warranted in every particular.

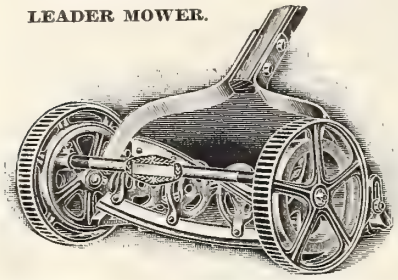
10 and 12-in. in. cut. **Price, $5.50.**

14-in. cut, four knives. **Price, $6.00.**

16-in. cut, 4 knives. **Price, $6.50.**

TERRACE SPECIAL (Style P. P.). **Price same as Sterling.**

LEADER MOWER.



High Wheel Ball Bearing. Very light running. Wheels 9 in. high; reel 6 in. in diameter; all latest improvements; noiseless action; keen cutting; self-sharpening; high speed.

14-inch cut. **Price, $8.75.**

16-inch cut. **Price, $9.00.**

ARDMORE LAWN MOWER (Style J). BALL BEARING.

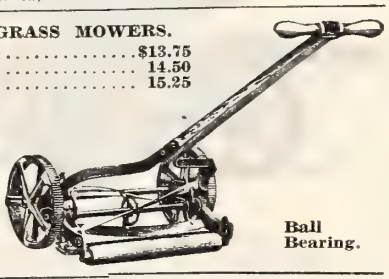
High Wheel. Case-hardened Bearings, double geared. Every detail of this Mower is in keeping with any high-grade machine on the market. High cylinders and very easy running.

14-in. cut, 4 knives, net	$ 9.75
16-in. cut, 4 knives, net	10.25
18-in. cut, 4 knives, net	10.75

KING HIGH GRASS MOWERS.

14-in. cut, price	$13.75
16-in. cut, price	14.50
18-in. cut, price	15.25

Driving wheels 9½ inches high; 6-inch ball-bearing revolving cutter; all blades crucible steel, hardened and tempered in oil.



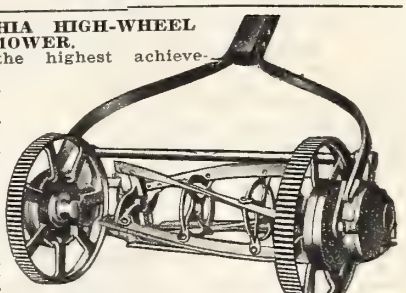
Ball Bearing.

PHILADELPHIA HIGH-WHEEL MOWER.

Represents the highest achievement in Lawn Mower manufacture.

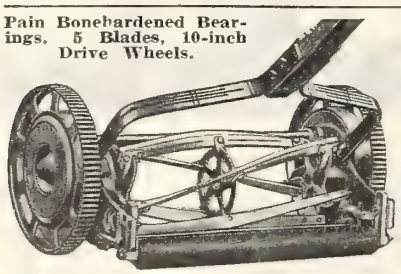
Roller Bearing.

Style Graham, all steel, cylinder 6½-in. diameter; four blades; driving wheels 10 in. No front rod Removable box caps to take out cylinder for sharpening.



Price, 15-in., $21.75; 17-in., $24.50; 19-in., $27.50.

Pain Bonebardened Bearings, 5 Blades, 10-inch Drive Wheels.



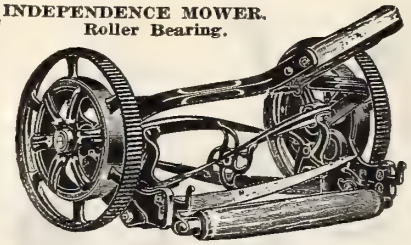
STYLE "K."

14-in.	$16.00
16-in.	17.60
18-in.	19.25

Roller Bearing.

14-in.	$18.00
16-in.	19.50
18-in.	21.25

INDEPENDENCE MOWER. Roller Bearing.



14-in.	$13.50
16-in.	14.00
18-in.	14.50

All Day Mower. Plain Bearings.

14-in.	$11.75
16-in.	12.35
18-in.	13.00

PHILADELPHIA EAGLE HORSE LAWN MOWER AND ROLLER.

This is the latest production of this well-known factory, and is now acknowledged by every user to be the best Mower in operation.

30-in., with seat, shafts and draft pole	$115.00
35-in., with seat, shafts and draft pole	140.00
40-in., with seat, shafts and draft pole	165.00

Special price on motor mowers.

BALTIMORE GRASS COLLECTOR.

Made of the best quality duck, heavy galvanized iron bottom; will fit any mower, and can be instantly attached and detached. . .

No. 1 will fit 12, 14 and 16-in. mower. **Price, $2.25.**

No. 2 will fit 16 ,18 and 20-in. mower. **Price, $2.50.**

LAWN ROLLERS.

These rollers represent all the latest and up-to-date improvements; they are fitted with hardened steel roller bearings, which reduces the draft by 40 per cent; the counter-balance attached on the outside of the drum induces the handle to stand in an upright position. The outer edges of the drum are well rounded to prevent cutting.

Water Ballast Lawn Roller.

Keystone Steel	Diameter Face	Total Length	Weight Pounds	Price
No. 4—2 section	20	20	250	$23.00
No. 7—2 section	20	24	300	27.50
No. 9—2 section	24	40	400	36.50

WATER BALLAST LAWN ROLLER.

No. WB7—24x24 Empty 100 lbs., Water, 440 lbs., Sand, 630 lbs. **Price, $23.00.**

No. WB9—24x32 Empty 115 lbs., Water, 590 lbs., Sand, 850 lbs. **Price, $26.50.**

CALIFORNIA SCIENTIFIC SPRINKLERS.

These sprinklers, which are especially adapted for use on lawns and golf links, supply a long-felt need for an efficient, simply constructed sprinkler, which has no movable parts to get out of order. The spray produced is just like rain and a remarkable distance is covered. Four, five, six and seven foot lengths. 50c per foot.

FOUNTAIN SPRINKLER.

Made of Heavy Brass.

Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." **Price, 75c.**

REVOLVING SPRINKLER.

These sprinklers are compactly and strongly made with phosphor-bronze bearing.

Eureka Sprinkler, 12 in. high, **Price, $1.80.**

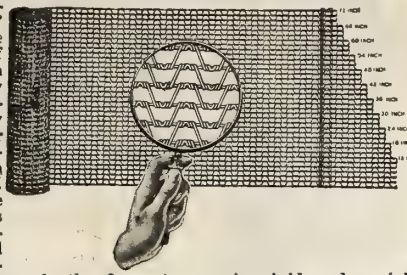
Newport Sprinkler, 24 in. high. **Price, $3.50.**

LADDERS AND LAWN SWINGS.

We shall be pleased to quote very reasonable prices.

Wire Fencing

UNITED STATES POULTRY NETTING.



U. S. Poultry Fence is strictly a "NO SAG" fence, as the combination of line and mesh wires, closely woven, prevents any lengthening or narrowing between posts. In erecting U. S. Poultry Fence the line wires permit of being stretched to a high tension, which compels the fence to remain rigid and upright without anchoring it to a baseboard or top rail. These features place it a long stride beyond the Hex mesh netting, which never fails to narrow and lengthen if you attempt to stretch it to a tension required to prevent sagging.

There is no netting on the market that compares with U. S. Poultry Fence for strength, beauty and durability, and we invite comparison with other makes, feeling confident that all our claims of superiority will be substantiated.

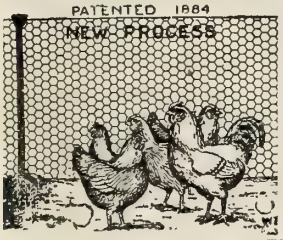
Made of No. 20 hard steel wire, double twisted and galvanized after weaving.

2-inch Mesh.

Put up in Roll of 150 feet.

12-in.	$1.50
24-in.	2.75
36-in.	3.75
48-in.	5.00
60-in.	6.30
72-in.	7.50

In less than Roll lots, 1½c a square foot.



1-inch Mesh.

12-inch, 150 sq. ft.	$3.00
18-inch, 225 sq. ft.	4.25
24-inch, 300 sq. ft.	5.50
30-inch, 375 sq. ft.	6.60
36-inch, 450 sq. ft.	7.50
48-inch, 600 sq. ft.	10.00

Poultry Netting Staples, per lb. ..... .10

American Steel Fence Posts

Made by American Steel & Wire Company

You can save all the time, cost and drudgery of tamping. Use **American Steel Fence Posts.** No tamping—no back-breaking post hole digging. You can drive steel posts in ordinary soil. Steel posts protect your live stock from lightning. Allows you to burn your fence rows, destroying bugs and weeds that damage crops. Eliminates repairs. Requires no staples. Makes land more valuable.

End post, 7 ft. high, weight 52 lbs.	$3.75
Corner post, 7 ft. high, weight 76 lbs.	5.50
Ball Tops for Line Posts	.25
Ball Tops for End and Corner Posts	.40
Upper Collar for hanging Gate and End Post	.75
Lower Collar for hanging Gate and End Post	.75
Pig-Ear Latch	.75
Driving Caps for Line Post	.40

Special Prices on Large Quantities.

5 ft. Line posts	$0.55	7 ft. Line posts	$0.70
6 ft. Line posts	.60	7½ ft. Line posts	.75
6½ ft. Line posts	.65	8 ft. Line posts	.80

Ribbon Wire, per 100 lbs. $9.25

CHAMPION WIRE STRETCHER.

No. 1 has hickory handle and malleable clamp; can be quickly adjusted, and is a favorite with fence builders. Price $1.50

RATCHET WIRE STRETCHER.

Is operated by one man and holds the wire in any desired position. Price $1.50

BARBED WIRE—GALVANIZED.

Two and four points, price per 100 lbs. $4.75

FENCE WIRE SPLICERS.

Small handy tool, which makes splicing easy and lasting. Price $0.20

Little Giant. Most efficient splicer on the market. Indispensable for repairing old fences $1.00

ORNAMENTAL LAWN FENCE.

Very attractive and we believe the most durable wire lawn fence made. Can be furnished heavy galvanized, or, in addition, coated with a specially prepared Gray Enamel Paint. Spaces, 1¼ inches; wire, No. 9 Crimped Pickets in No. 12½ Tw. Cables.

Price, 36-inch, per ft. 16c; per 100 ft.	$15.00
Price, 42-inch, per ft. 18c; per 100 ft.	17.00
Price, 48-inch, per ft. 21c; per 100 ft.	20.00

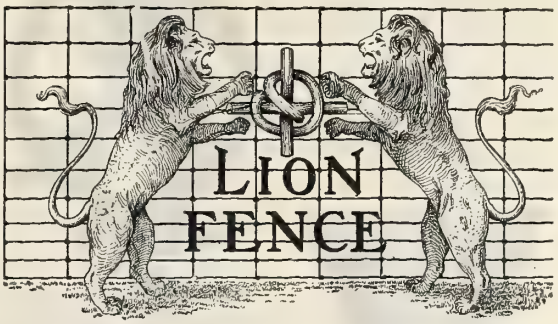
In Rolls of 200 feet, deduct 1c a foot.

ORNAMENTAL GATES.

Heavy steel frames, filled to match the fence fittings for wood, pipe or metal post.

	Distance Between Posts.					
Height.	3 ft.	3½ ft.	4 ft.	5 ft.	8 ft.	10 ft.	12 ft.
36-inch	$4.00	$4.20	$4.40	$4.85	$8.00	$9.00	$10.00
42-inch	4.20	4.50	4.80	5.10	8.25	9.80	11.25
48-inch	4.40	4.75	5.20	5.40	8.50	10.20	12.30

PAGE STOCK FENCE.



"Page Lion" stock fence is made of hard steel wire and of just the right temper to give the fence extraordinary staying qualities. The patented Lion Lock prevents the buckling of the fence when stretched on uneven ground; it also prevents the fence becoming waterlogged and rusting out, which is the case in light-twisted lock.

	Per rod
Regular No. 635, 6 strands, 35-in. height	$0.40
Regular No. 845, 8 strands, 44-in. height	.50
Regular No. 1047, 10 strands, 47-in. height	.60
Hog style, 726, 7 strands, 16 stays, 12-in. apart	.40
Hog style, 726, 7 strands, 32 stays, 6-in. apart	.41
Hog style, 832, 8 strands, 16 stays, 12-in. apart	.45
Hog style, 832, 8 strands, 32 stays, 6-in. apart	.60

10 Rod Rolls, 25c per Roll, Extra.

PAGE HEAVY POULTRY AND RABBIT FENCES.

A fine group of poultry fences, sufficiently close spaced to answer every demand of the poultryman and strong enough to protect the yards against domestic stock.

Style No.		Price per Rod
P-1848	18 strands, 48 inches high	$0.64
P-2058	20 strands, 58 inches high	.70

10 Rod Rolls, 25c per Roll, Extra.

AMERICAN STOCK FENCE.

American fence is one continuous wire from top to bottom, and is locked to the strand wires with a simple lock or knot.

No. 635. 6 strands, 35-in. high, 12-in. stays, per rod. $0.38

No. 845. 8 strands, 45-in. high, 12-in. stays, per rod. .47

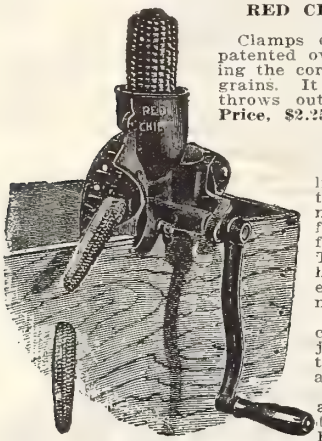
Put up regular in 20-rod Rolls. Prices subject to change.

AMERICAN POULTRY FENCE.

An ideal fence against poultry and small animals. The spacing is graduated from 1½ inches at the bottom to 5 inches at the top, and the distance between the stays is 6 inches. We carry the fence in stock in the styles mentioned below.

1948.	48-in. high, per roll of 165 ft.	$6.15
1053.	53-in. high, per Roll of 165 ft.	6.25
1158	58-in. high, per Roll of 165 ft.	6.60

Poultry Supplies, Feeds and Remedies



RED CHIEF HAND CORN SHELLER.

Clamps on barrel or box; has patented oval-shaped teeth, shelling the corn without cracking the grains. It shells very easily and throws out the cob every time. **Price, $2.25.**

RED CHIEF RAPID GRINDING MILL.

It is built on scientific lines and combines all the elements which make up the most satisfactory Hand-Power Mill for grinding small grain. The burrs are extra hardened and self-sharpening; they cut; do not mash.

The only Mill that can be cleaned and adjusted in a moment's time without the use of a wrench.

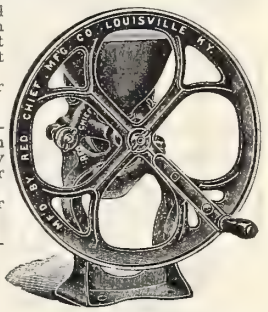
No. 2. Is operated by a crank; chains or bolts to a box as desired. Has hooks on which to hang a bucket. Capacity 1-2 bushels per hour. **Price, $5.00.**

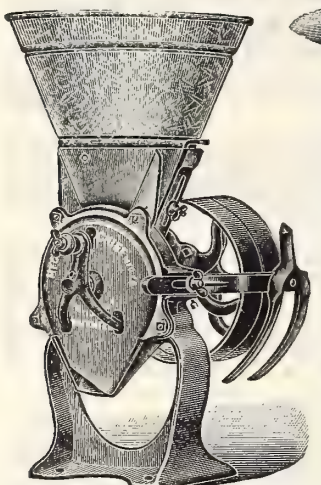
No. 5. Has a fly wheel which makes the Mill run steady, and requires the least possible power to turn it. It fastens by chains or bolts.

Capacity 2-4 bushels per hour. **Price, $7.25.**

No. 10. This Mill has beautiful outlines, as shown in illustration; will grind any kind of small grain; also oyster shells and dry bone.

Capacity 2-4 bushels per hour. **Price, $9.00.**





No. 20. Combined Hand-Power Mill. It is substantially constructed; all bearings bronze metal, and when run a speed of from 300-450 revolutions per minute will grind from 10-20 bushels per hour. Power required, from 1½ to 2 horse-power engine.
Price, $21.00.

Extra Attachments for No. 20 Mill.

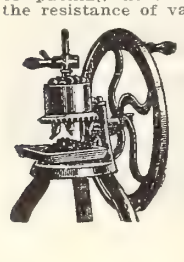
These devices, including Corn Sheller and Table Meal Separator, can be attached to any No. 20 Mill now in use, and can be operated combined or independently, as may be desired, and enable the user to shell, grind or crack corn, also save fine table meal in one operation

Table Meal Separator. Price, $6.50. Including hand crank.

Corn Sheller Attachment. Price, $9.00.

MANNS' NEW MODEL GREEN BONE CUTTERS.

The easiest running and the most rapid, green bone cutting machine made. Has a perfect automatic and self-governing feed. Adjustable to cut coarse or fine, fast or slow. The hinged opening cylinder is easy to clean and adjust without taking the machine apart. The bones are dropped into the open cylinder, no careful feeding or packing necessary. The machine regulates itself to the resistance of various size bones.



No. 231, Style 5B. With balance wheel, cylinder 6 inches in diameter. **Price, $12.50.**

No. 232, Style 5BM. With balance wheel and mounted on heavy iron stand; cylinder 6 inches in diameter. **Price, $16.00.**

No. 234, Style 7½. Hand or power. Tight and loose pulleys 11½x2½; cylinder 7¼ inches in diameter. Capacity 50 to 100 lbs. of bone per hour. ½ to 1 h. p. required. **Price, $25.00.**

CONKEY'S BUTTERMILK STARTING FEED.

A Ready Prepared Mash for baby chicks and all self-feeding young fowls. This remarkable feed—originated by Conkey and prepared through processes controlled and used exclusively by Conkey is a complete ration—containing all the elements needed for safely starting baby chicks, ducklings, goslings, poults, guineas, pheasants, etc.

This superior chick mash was the **first** commercial poultry feed containing buttermilk—that is why we call it the only **original** buttermilk starting feed.

Conkey's did not "just happen"—it is a scientifically-balanced feed as clean and wholesome and as conscientiously prepared as "infant food." Selected, plump grains ground to proper fineness, are combined with other ingredients so as to make the feed readily digestible, palatable and nutritious. **Taste it, smell it,** that's the way to judge a chick feed.

Conkey's carries buttermilk in just the right proportion as an aid in prevention of bowel troubles, White Diarrhoea, "leg weakness," etc. The buttermilk is Semi-Solid buttermilk, blended with other ingredients by the **original** process in such a way as to preserve the appetizing, tonic, and other properties of the newly-churned product.

The moisture in the buttermilk is drawn off by the exclusive Conkey process in such a way as not to subject it to the terrific heat usually required in "drying" buttermilk.

Lactic acid in buttermilk is described as an "Intestinal broom" which sweeps away unfriendly bacteria and disease germs in the delicate digestive tract. Buttermilk is also rich in one of the vitamines necessary to growing birds. It is a wonderful appetizer, aid to digestion and flesh builder.

However, it is not the buttermilk nor the other ingredients alone that causes people to declare that their chicks **grow twice as fast** on Conkey's. It is not the buttermilk alone that protects the chicks from disease during the first critical eight weeks. The secret is in the combination of these materials by the Conkey method—the balancing of the ration, as Conkey alone knows how.

Don't be influenced by "cheaper" imitations labeled "buttermilk"—that word may be used to deceive unwary buyers—to cover up a multitude of "sinful" grains, mill sweepings, poisonous weed seeds, musty screenings, worthless by-products, or other poor material having little or no nutritive value.

Conkey's is so palatable that one poultryman said it ought to be used for "breakfast food." One woman wrote: "My chicks just love Conkey's. It is so tasty, and my, how they do grow! Better still, we didn't have a single loss in the present hatch, no White Diarrhoea or other bowl troubles like before we began using Conkey's."

Conkey's is all the chicks need the first eight weeks except greens, charcoal, grit, clean water and some fine scratch grains in the litter for exercise. Give grit and water from the start. During the second week add green stuff and in the fourth week finely cracked grains

Packed in convenient sizes. Buy 1½ lbs. for every chick. **Price, 3 lbs., 25c; 25 lbs., $1.50; 100 lbs., $5.25.**

CONKEY'S BUTTERMILK GROWING MASH.

This mash is fed after the chicks are eight weeks old. it is balanced for rapid and even development of muscles, bone, vital organs and feathers. Like all Conkey mashes it is low in fibre, clean and always uniform.

The Growing Mash differs materially from the Starting Feed—meat scraps are added, bone is increased, and corn decreased—growing birds demand a heavier diet than delicate baby chicks. **Price, 3 lbs., 20c; 25 lbs., $1.45; 100 lbs., $4.50**

MANNS' BABY CHICK SCRATCH FEED.

Well balanced, clean, fresh, nutritious feed. **Price, 10 lbs., 40c; 100 lbs., $3.25. (Subject to change).**

MANNS' DEVELOPER.

The very necessary small scratch feed for the proper development of young fowls. **Price, 10 lbs., 40c; 100 lbs., $3.25 (Subject to change).**

MANNS' SCRATCH FEED.

Wholesome, clean grains, correctly mixed to give a well balanced ration. Contains no grit and no cob. In mixing this feed we have made quality the first consideration but believe that our price is attractive as well. We shall be pleased to mail sample and latest prices.

MANNS' LAYING MASH.

To produce eggs abundantly, the flock must have a good scratch grain mixture, a regular supply of green feed, plenty of water, and a good **Dry Mash.** One or two of these items will not be sufficient to permit the hens to do their best; all four feeds are absolutely necessary and experienced poultrymen have learned this from experience. Our laying mash is very low in fibre and just right in protein for layers; it is uniform in quality and always dependable **Price, 10 lbs., 40c; 100 lbs., $3.40. (Subject to change).**

BEEF SCRAPS, EGG-A-DAY GRIT and SHELLS.

At very attractive prices. We shall be pleased to send latest quotations.

IDEAL HOT-WATER INCUBATORS.

The Ideal incorporates every advantage and improvement known in a first-class incubator, and is the simplest method of artificial hatching. The outside and inside walls of the incubator are made of one-inch thick California Red wood, interlined with corrugated fiber board, which produces a dead-air space between the inner and outer walls of the incubator, so that the outside temperature has no effect upon the Egg Chamber. Every size except No. 7 has a nursery under the egg tray.

The lamp support is a fireproof box, which encloses the boiler in such a way that the heat is concentrated direct to the boiler and eliminates all possible waste of fuel.

The tubular tank and boiler is made of pure copper, and guaranteed against leaks. By filling the tank with hot water in starting the incubator, a temperature up to 103 degrees can be obtained in less than two hours. The Ideal is furnished complete with all necessary fixtures, attachments and instruction book to operate same successfully.

No. 7, capacity 60 Eggs	$ 9.25
No. 1, capacity 85 Hen Eggs, or 60 Duck Eggs	13.00
No. 2, capacity 160 Hen Eggs, or 120 Duck Eggs	17.00
No. 3, capacity 250 Hen Eggs, or 200 Duck Eggs	22.00
No. 8, capacity 400 Hen Eggs, or 280 Duck Eggs	30.50

IDEAL METAL-COVERED INCUBATORS.

The incubator case is constructed of first-class timber. Over the outside of the wooden case a heavy layer of wool felt, then the entire outside of incubator case is covered with 28-gauge galvanized and painted iron. The top and bottom is made of four thicknesses of material, which makes the incubator well insulated.

The incubator is trimmed with black enamel iron, and is held up by substantial, strong and well-finished steel angle legs.

No. 4, 120-Egg size	$14.50
No. 5, 175-Egg size	17.50
No. 6, 240-Egg size	21.50

Let us send information and prices on large size, commercial outfits.

OIL HEATERS.

Small oil heaters and stoves are rapidly coming into general use for a variety of purposes, and are essential to the successful operation of any poultry yard, large or small. Chickens will not drink very much ice-cold water, but as eggs are more than 80 per cent water it is necessary that plenty of cool water is available regardless of the season of the year. These oil stoves are being used to keep the water at a palatable temperature and very soon pay for themselves in the increased production of eggs. These heaters are also used for heating home-made oat sprouters and small brooders.

MOE'S FOUNTAIN HEATER. Can be used with all styles of fountains and solves the problem of uniform supply of fresh, clear water at all times, no matter how cold the weather. The lamp bowl holds sufficient kerosene to burn continuously for seven days. Simple and safe. Nothing to get out of order. Height 7 inches; diameter 11 inches. **Price, $1.80 each.** Shipping weight 5 lbs.

LITTLE PUTNAM STOVE. Made of galvanized iron and equipped with a burner which embodies an entirely new principle in oil combustion. The combustion is complete and perfect, doubling the heat value of the oil. The oil tank holds three pints of oil and burns three to four weeks without refilling or other attention. This stove is absolutely fire-safe and non-explosive. If it is tipped over it will go out. Size, 4 inches high and 9 inches in diameter. **Price $2.00 each, postpaid.**

"STANDARD" INCUBATOR OIL.

"Standard" Incubator Oil is a superfined kerosene. It is the result of research and exhaustive tests covering many years in an effort to produce an oil which will not smoke or char wicks.

"Standard" Incubator Oil has been burned for four weeks continuously without any attention other than replenishing the supply in the reservior, with no perceptable char on the wick nor change in the flame at the end of that period. It is far superior to the best grades of water-white kerosene hitherto obtainable, both in point of heat and light resulting from its use. It will give much better service than ordinary kerosene, so that its higher initial cost is not a serious factor in the way of its free use.

"Standard" Incubator Oil is in every respect better than any kerosene or substitute for it hitherto placed upon the market. It will be found especially valuable for general household use, particularly where kerosene lamps are depended upon for illumination. It can be advantageously used in place of ordinary white kerosene for lanterns, oil lamps on automobiles or carriages, and in fact wherever freedom from smoke, odor and charred wicks is particularly desirable. **Price per 5-gal. can, $2.50.**

IDEAL BROODER FOR INDOOR AND OUTDOOR USE. HOT-AIR HEATED.

The brooder is divided into two compartments: The hover, which is directly under the heater pipes, and the exercise-room in front next to the glass windows. The two compartments are separated by a heavy felt curtain. The chicks go into the hover to get warm the same as they do when they go under the old hen in the natural way. The brooder is well finished, well manufactured, and will last indefinitely. Only first-class lumber is used in its construction.

Made in two sizes, priced as follows:

	Floor Space	Weight	Price
No. 1, 100-chick size	24x30 inch	85 lbs.	$ 9.75
No. 2, 200-chick size	32x44 inch	110 lbs.	12.00

ROYAL BROODER STOVE.

Burns any kind of fuel, is safe, dependable and easily operated.

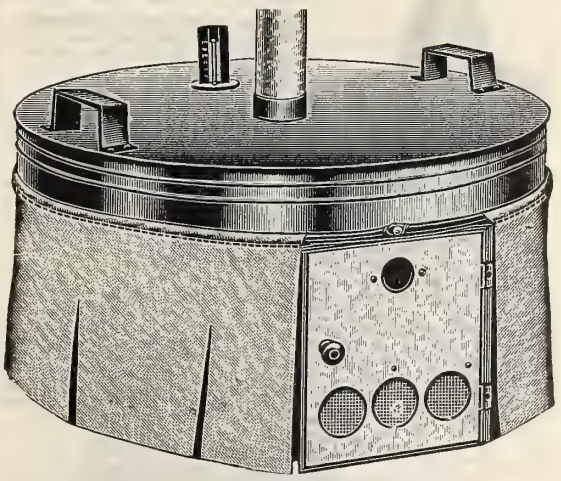
Galvanized steel, fastened with bolts to a strong cast-iron ring that fits perfectly to the top of the stove. Hover is 42 inches in diameter, and is removable; it requires a floor space of 6 to 8 feet.

500-chick size	$16.00
1000-chick size	20.00

IDEAL COLONY BROODER.

The Colony brooder has been in use for a number of years by thousands of poultrymen, and has never failed to give satisfaction. It burns hard or soft coal, and is self-regulating, check-valve or damper being hung on a sharp edge fulcrum so that it works perfectly. **Price on application.**

IDEAL PORTABLE BROODER.



This brooder is constructed throughout of heavy steel, has heavy felt curtains to protect the chicks, has first-class safety lamp, thermometer and complete instructions.

Capacity, 100 chicks; diameter 18 inches; weight 30 pounds. **Price, $7.50.**

CHICK FEEDERS.

They are constructed so as to keep feed near the outer edge where it can be easily reached. The small openings around the top keep the chicks out of the feed, keep the food clean and prevent crowding, thereby insuring that the weakest chicks will get food. Top removable for cleaning. Thoroughly galvanized.

6 in. diameter, 8 feeding holes $0.15
8¼ in. diameter, 12 feeding holes ..... .25

DRY-MASH HOPPERS.

These hoppers are made from heavy galvanized iron, and are so constructed that they can be closed up at night to keep out mice and rats. They are also provided with a screen to prevent the chickens from scratching the mash out and wasting it.

It not only saves the feed, but keeps it before the fowl where they can get as much as they should have. Made in two sizes.

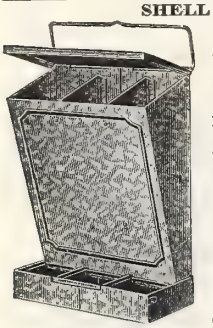
12 inch $2.00
24 inch 2.80

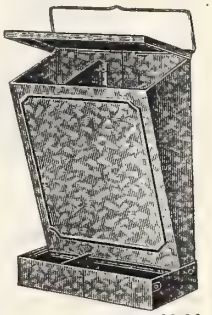
MOE'S WALL FOUNTAINS.

DROP-BOTTOM WALL FOUNTAINS. A square fountain filled at the bottom, easily kept clean, very durable. **Price, 2-qt. size, 90c; 1-gal. size, $1.15; 2-gal. size, $1.35.**

ROUND WALL FOUNTAINS. A practical and convenient style, made of heavy galvanized iron. The one-gallon size has removable bottom so that all parts may be easily cleaned. **Price, 75c.** Five-gallon size appeals to many breeders desiring a large capacity fountain at small cost. Easily filled at the side; nothing to get out of order. **Price, $1.95.**

SHELL AND GRIT BOXES.





This box is made of heavy galvanized iron with 3 compartments for grit, shells and charcoal. It is provided with lid and cover, which protects the contents and may be suspended to the wall of poultry house by the handle.

3 Compartments, Height 13 in., Width 8½ in. $0.90
2 Compartments, Height 8 in., Width 5 in. ..... .40

NESCO SANITARY DRINKING FOUNTS.

Quarts	1	2	3	4
Prices	20c	25c	35c	50c

IDEAL POULTRY MARKER.

Easy to operate, and one of the latest made. **Price, 50c each.**

WIRE HEN'S NEST.

Very substantially made of heavily coppered wire and ¼-inch metal strips; will last indefinitely, and always sanitary. **Each, 25c; doz.; $2.80.**

MEDICATED NEST EGGS.

A white, sanitary, lice-repelling nest egg of superior quality and appearance, aiding greatly in keeping the nest and the hen free from vermin. They closely imitate a real egg in appearance and contain a powerful disinfectant. **Price, per doz., 60c.**

PORCELAIN NEST EGGS.

Price, per doz. $0.30

KEY RING, COLORED LEG BANDS.

These leg bands are spiral or key ring shaped, are quickly put on or removed, and make it easy to keep an accurate register of your birds. They are of a proper temper, keep their shape, light in weight and very durable. Will not fade and are weather proof. Made in six sizes and ten colors. **Poultry sizes, doz., 15c; 50 for 50c; 100 for 75c; 500 for $3.60. Baby Chick and Pigeon sizes, doz., 10c; 25 for 20c; 50 for 35c; 100 for 50c.**

This is one of the best and most popular bands. A favorite among all poultry raisers. It is adjustable to suit all fowl. **Doz., 15c; 25 for 25c; 50 for 45c; 100 for 75c.**

LICE EXTERMINATORS.

"STANDARD" DUST BATH. Why not let chickens cleanse themselves, whenever they feel like it, in a natural way? Instinctively, they take the only kind of a bath they know of, in the dust, to rid themselves of vermin and insects. But ordinary dust is not effective. Standard Dust Bath is something that practical poultry raisers have long been looking for. Placed in a box about two feet by three feet by one foot deep, standing six inches or more off the floor, Standard Dust Bath will work a marked improvement in the condition of the poultry within a very few days. It completely eradicates lice, cleans the feathers and imparts a gloss to them. It is guaranteed not to injure or discolor the legs or bodies of the birds; it cannot get muddy or dusty and is an excellent moisture absorber. It is cheap not only in the first cost, but because it will last for a long time without replenishing. It positively destroys germs and lice in a natural, effective manner at a very low cost, and gives the fowls the benefit of nourishment otherwise consumed by parasites. **Price, 5-lb. sample, 25c; 50-lb. bag, $2.00; 100-lb. bag, $3.00, f. o. b. Baltimore.**

CONKEY'S NOX. A little cube—only an inch square—mixed in water makes a gallon of dip or disinfectant over two times as strong as most coal-tar disinfectants. No leaking cans, no waste, no guessing as to mixture. A saving on freight and packing charges. **Price, 6 cubes, 25c; 30 cubes, $1.00. Special prices on larger quantities.**

LICE POWDERS. For dusting hens, nests, growing chicks, wherever body lice must be overcome. **Pratt's or Conkey's, 15c and 25c packages. Sodium Fluoride,** endorsed by the U. S. Dept. of Agriculture, **35c and 60c.**

CARBOLA. Combination whitewash and disinfectant. Very readily mixed with water for spraying. **10 lbs., $1.25.**

MISCELLANEOUS.

CONKEY'S, PRATT'S and BURRELL-DUGGER REMEDIES. These remedies have come into general use because of their superior quality. Each line has its friends, some customers prefering one above the other. Roup, Gape, Cholera and Diarrhoea remedies are put up in **25c and 50c packages.**

BOURBON POULTRY REMEDY. A useful medicine for the treatment of Cholera, Limberneck, Roup, Gapes, Diarrhoea, Black Head and certain other poultry diseases. A general remedy which will be of great assistance in the cure and prevention of many diseases. **Price, 60c; pint, $1.50.**

PRATT'S SPECIAL REMEDY. For simple bowel complaints sometimes mistakenly confused with Cholera. Also for the relief of indigestion, sour crop and dysentery. **Price, 30c and 60c.**

PRATT'S POULTRY REGULATOR. A scientifically prepared tonic, acting on the digestion, bowels and blood, thus helping to keep the fowls in good condition and to increase egg production. It assists poultry to make rapid growth, fatten more quickly and develops pullets into earlier layers. **Price, small size, 25c; 4-lb. package, 50c; 12-lb. pail, $1.40.**

CONKEY'S POULTRY TONIC and HESS' PANACEA. Price, 25c and 50c.

DON SUNG. Guaranteed to make hens lay. A tonic which increases egg production by improving the health of the flocks. If results are not entirely satisfactory, money will be refunded. **Two sizes, 50c and $1.00.**

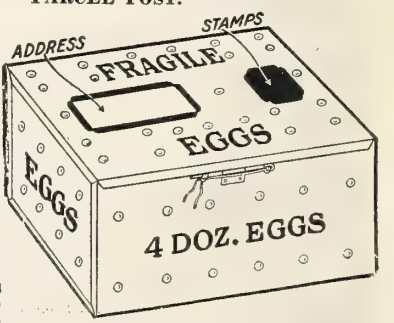
WATER GLASS. Put down eggs in the spring and summer when they are cheap and keep them fresh for ten months. One gallon makes sufficient solution for 50 dozen. **Price, quart, 40c; gallon, $1.25.**

STAR JAR FOUNTAIN AND FEEDER.

Will fit any pint, quart or half-gallon jar. Manufactured of one piece of non-rustable metal. No parts to come unsoldered. Leaking impossible. Convenient, cheap sanitary. Little chicks cannot get drowned. Can be used for feed as well as water. **Price, without jar, 10c.**

METAL EGG CRATES—FOR SHIPPING EGGS BY PARCEL POST.

These boxes are made for continued use, being strongly constructed, but light in weight All crates are provided with built-in shock absorbers to give a cushion for the eggs. The crates do not require outside wrapping for mailing.



OLD STYLE.

Capacity	Each
2-doz. size..	$1.00
3-doz. size..	1.25
4-doz. size..	1.50
6-doz. size..	1.75

COMBINATION CRATES—OLD STYLE.

1 doz. Eggs and 3½ lbs. Butter $1.50
2 doz. Eggs and 7 lbs. Butter 1.75
2 doz. Eggs and 3½ lbs. Butter 1.65

NEW MODEL METAL EDGE FILLER.

2-doz. size $1.50
3-doz. size 1.75
4-doz. size 2.00
6-doz. size 2.50

Dairy Supplies

AUBURN STEEL-AXLE FARM WAGONS AND PUMP CARTS.

These Wagons and carts are made of best Eastern-grown, well-seasoned hickory and white oak wood, heavily ironed and well made throughout. They are sold under a guarantee to carry their full rated capacity. Any defective part of material or bad workmanship will be replaced free of charge within one year from the date of purchase. Let us quote latest prices.

AMERICAN CREAM SEPARATOR.

The advantages of the Centrifugal Cream Separator are now acknowledged everywhere, and the American possesses the following points of merit:

Simplicity, durability, clean skimming, ease of operation and price.

No. 10. 200 lbs. milk per hr. **No. 2.** 450 lbs. milk per hr.
No. 1. 350 lbs. milk per hr. **No. 3.** 600 lbs. milk per hr.

Fully Guaranteed.
Write for Special Price.

BOSS CREAM SEPARATOR.

Every small dairy should certainly have the Boss. It means one-quarter more cream of better quality and saves one-quarter the time. No machinery to run or look after. Separation is effected by circulation of cold water in outer can. All the cream rises to the surface in an hour or two and is drawn off sweet. Suitable for table use or other purposes.

2½ gallons, capacity 1 to 2 cows..**$8.50**
4 gallons, capacity 3 to 4 cows.. **9.50**
6 gallons, capacity 4 to 5 cows..**10.25**

TWIN SEPARATOR.

Has many advantages over the separator with a single milk vessel; one can be used in the morning and the other in the evening.

2 cans, 12 gallons, capacity 6 to 7 cows.....**$16.00**

WATER MIXERS.

In the Dilutors or Water Mixers the water is poured right into the milk so as to chill it instantly and cause the cream to rise in about one hour.

8 gallons, to hold 4 gallons of milk..**$5.75**
12 gallons, to hold 6 gallons of milk.. **6.75**
16 gallons, to hold 8 gallons of milk.. **7.75**

DAIRY THERMOMETERS.

Each **$0.75**

CREAM-TESTING TUBES.

Each ..... **.60**

PARCHMENT BUTTER PAPER.

Is furnished in sizes: 24x36, 9x12, 6x9, 6x6. Price, per pound, **25c.** By mail, add regular Parcel Post rate.

HAND BUTTER PRINTS.

½ lb. Seeley Pattern, as shown in cut **$0.75**
Baltimore Pattern..... **1.25**
Round Print and Mould..... **.40**

BUTTER WORKER.

Inside Measurement.	Cap.	Price.
No. 1. 23x36x2½ in.,	50 lbs.	**$21.50**
No. 2. 20x36x2½ in.,	30 lbs.	**17.00**
No. 3. 17x27x2½ in.,	20 lbs.	**15.35**

BUTTER COLORING.

Dandelion Brand Butter Coloring is guaranteed to be purely vegetable, and that the use of same for coloring butter is permitted under all Food Laws—State and National.

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring. Put up in four sizes.

Small size to color 500 lbs. **$0.35**
Medium size to color 1250 lbs. ..... **.65**
Large size to color 2800 lbs. **1.25**

HUDSON COW STANCHIONS.

Tubular Stanchions (No. 66W). These stanchions are wood lined, and so constructed as to be comfortable, strong and durable. They are made of high quality metal with but very few working parts to get out of order. The wood lining is a very important feature, as it is a protection against the cold iron. **Price, $2.70 each.**

MILK CANS.

Made of special heavvy cold rolled milk can material. One of these cans will outlast two or three of the common light weight cans, sold at very attractive prices. 5 gal. size only.

No. 105. Old style Concave Cover, 12 lbs. empty **$3.25 each**
No. 205. Umbrella Cover.....13 lbs. empty, **3.50 each**
No. 520. N. Yk. pattern, ext. heavy, 14 lbs. empty, **4.25 each**
No. 820. Balt. pattern, ext. heavy, 13½ empty, **4.25 each**

RYDE'S CREAM CALF MEAL.

Quality is of more importance in Calf Meal than in any other feed; it pays to buy the best. The advantages in feeding it are many. 1. It saves milk. 2. It costs less to feed. 3. It makes better veals. 4. You can raise your own dairy cows on it cheaper than they can be bought. 5. It leaves more milk to sell, and more profit to you. Satisfaction guaranteed. **Price, 25 lb. bags, $1.80; 50 lb. bags, $3.50, f. o. b. Baltimore.**

LETZ GRINDERS.

No. 6 Letz Junior. Has 6 inch diameter plates, 1¼ inch diameter drive shaft, Pulley either 6, 8, 10 or 12 inch diameter and 4 inch face. Fly wheel 14 inches in diameter, weighing 25 lbs. Complete weight of mill, 175 lbs. It will operate on 1 h. p. to 3 h. p., at 200 r. p. m. to 800 r. p. m., grinding 3 to 15 bu. (of 70 lbs.) of ear corn, according to power and speed. **Price, $30.00.**

KELLY DUPLEX GRINDING MILLS.

The only mill manufactured which has double or duplex grinders. It has a grinding surface of just double that of any other mill of equal size, and therefore can do twice as much work; or as much work as any other mill twice its size. Grinds any kind of grain, cotton seed, corn and cob, and corn, cob and shucks equally well, and produces a grist of any desired quality—coarse, medium or fine. Its shifting device for regulating the grinding is the most perfect known. A positive force feed, no choking; no end thrust on the main shaft under any conditions. Simple in construction, easily operated, strong, durable and efficient.

No. 1. 3½ to 6 h. p. Three feet, 4 inches high, shaft 3 feet, 6 inches long; capacity, 8 to 18 bu. ear corn, according to power and speed. **Price, $60.00.**

No. 11, Junior. 3 to 6 h. p. Height, 3 feet, 2 inches, length of shaft, 3 feet, 2 inches; capacity, 6 to 12 bu. ear corn, according to power and speed. **Price, $40.00.**

TORNADO ENSILAGE CUTTER AND SILO FILLER.

Made strong and durable in every respect; repairs are seldom necessary. Cuts 100 per cent finer and puts 25 to 30 per cent more feed into your silo than any other machine on the market. This firm packing of the feed keeps it in better condition and saves space, giving much greater storage capacity. The feed is cut so fine that the cattle will eat it all.

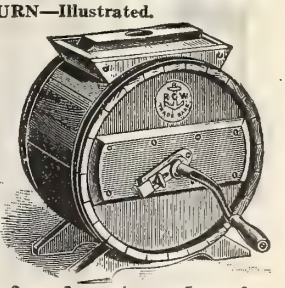
No. 13 Cutter, with blower, 30 feet of pipe, flat feed table, mounted on steel truck, **$163.20.**

Same, with traveling feed table, **$181.00.** Requires 6 to 8 horse power.

CONKEY'S FLY KNOCKER.

The best preparation on the market for keeping flies off cattle and horses. Easily sprayed on and retains its strength all day, allowing the cows to pasture without annoyance, and therefore assists in the production of milk. **Qt., 60c; gallon, $1.50.**

CYLINDER CHURN—Illustrated.



CYLINDER CHURN.

Made of selected white cedar and well put up.

Full churning capacity.

No....	1	2	3	4
Gals...	1½	2	3½	6
Price,	**$4.25**	**$5.00**	**$5.75**	**$6.75**

BARREL CHURN.

Oak stave; steel top; it works by concussion and will not break the grain of the butter nor make it of a salvy consistency.

No.	0	1	2	3	4	5	6
Gallons churned ..	3	5	7	10	13	18	30
Price	**$5.50**	**$6.30**	**$7.20**	**$8.00**	**$10.35**	**$11.75**	**$22.00**

BUTTER SHIPPING BOXES.

36 ½-lb. prints.....**$18.00**		20 lb. prints **$15.00**	
64 ½-lb. prints..... **21.50**		30 lb. prints **16.75**	
80 ½-lb. prints..... **23.00**		40 lb. prints **19.00**	
100 ½-lb. prints.....**28.00**		56 lb. prints **20.40**	

Water Supplies

KANAWHA WOOD PUMPS.

Porcelain Lined—Ready to Set in the Well.

Depth of Well.	No. 2, 6x6. House Pump.	No. 5, 7x7. Farm Pump.
8 feet	$13.00	$15.80
9 feet	13.50	16.20
10 feet	14.00	16.60
11 feet	14.40	17.00
12 feet	14.75	17.40
13 feet	15.20	17.80
14 feet	15.60	18.20
15 feet	16.00	18.60
16 feet	16.40	19.00
17 feet	16.80	19.40
18 feet	17.20	19.80
19 feet	17.60	20.20
20 feet	18.00	20.60
21 feet	19.20	22.00
22 feet	19.60	22.40
23 feet	20.00	22.80
24 feet	20.40	23.20
25 feet	20.80	23.60
26 feet	22.00	25.00
27 feet	22.40	25.40
28 feet	22.80	25.80
29 feet	24.80	28.20
30 feet	25.20	28.60

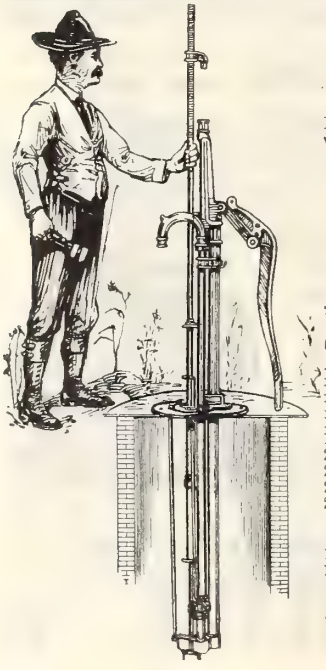
Depth of Well.	No. 4, 7x7. Pump Head.	No. 6, 6x6. Pump Head.
31 feet	$32.50	$28.50
32 feet	32.90	28.90
33 feet	33.30	29.30
34 feet	36.10	32.10
35 feet	36.50	32.50
36 feet	36.90	32.90
37 feet	39.70	35.70
38 feet	40.10	36.10
39 feet	40.50	36.50
40 feet	40.90	36.90
41 feet	44.90	40.90
42 feet	45.30	41.30
43 feet	45.70	41.70
44 feet	46.10	42.10
45 feet	48.90	44.90
46 feet	49.30	45.30
47 feet	49.70	45.70
48 feet	51.30	47.30

MYERS' PUMP JACKS.

Well built of best materials for perfect service. No. 422 for gasoline engine power and No. 422M for electric motor. Both are self-lubricating, and have machine cut gears. This construction not only insures perfect and continuous lubrication, but protects the moving parts from dust and dirt, greatly increasing the life of the jack. Can be used in connection with any make of pump stand. **Price, $17.50.**

No. 425. Steel shafts **$15.00**

No. 366. Angle iron shafts **12.50**



RED JACKET IRON EASY-TO-FIX PUMPS.

Prices quoted below are Pumps ready to set in the well.

Depth of Well.	Fig. 28. No. 1, 3-inch Cylinder. Double Act.	Fig. 51. Depth of Well. 2½-inch Cylinder. With 3-way.
10 ft.	$25.60	28 ft. $48.55
12 ft.	26.50	30 ft. 50.22
14 ft.	27.25	32 ft. 52.74
16 ft.	28.15	34 ft. 54.45
18 ft.	29.00	36 ft. 57.00
20 ft.	29.70	38 ft. 58.79
22 ft.	30.60	40 ft. 61.38
24 ft.	31.50	42 ft. 63.00
26 ft.	32.40	44 ft. 65.70

If over 44 feet, add **90c** per foot on the above prices.

If 3-way is not wanted where listed, deduct **$3.00.**

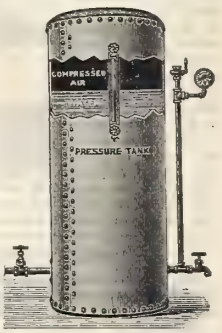
PNEUMATIC WATER TANKS.

The Tanks from 36x14 and smaller have 5-16-inch-thick heads and 3-16-inch-thick shells; larger sizes have ⅜-inch-thick heads and ¼-inch-thick shells. Every Tank is tested to 125 pounds of air pressure.

The water storage of the Tank is about two-thirds of its total capacity.

Diameter in Inches.	Length in Feet.	Capacity in Gallons.
24	5	120
24	6	145
24	7	170
24	8	195
24	10	245
30	5	180
30	6	220
30	7	255
30	8	295
30	10	365
30	12	440
36	5	265
36	6	315
36	7	365
36	8	420
36	10	525
36	12	630
42	8	575
42	10	720

Let us quote latest prices.



Water Gauge **$3.00**

Pressure Gauge **3.50**

MYERS SELF-OILING BULLDOZER POWER PUMP—FOR PNEUMATIC PRESSURE SERVICE.

No. 610A. This pump has a capacity of 450 gallons per hour and is capable of producing 100 lbs. pressure. It has a cog gear handle attachment which makes hand operation very easy. Also equipped with tight and loose pulleys for power operation. The self oiling feature is very favorable. Price, **$55.00.**

No. 612A. Self-oiling, for power only. Capacity 500 gallons at 70 r. p. m. Quite similar to No. 610A but has vacuum chamber additional. Price, **$55.00.**

HYDRAULIC RAMS.

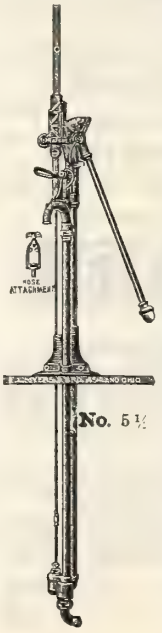
For elevating water by its own pressure; a very economical means of supplying water to a storage tank, in cases where a natural water fall can be made available. These rams are constructed of iron and bronze and have always given entire satisfaction. **No. 2, $14.00; No. 3, $17.50.**

WOOD STORAGE TANKS.

Our Storage Tanks are made of carefully selected red gulf cypress. We avoid the use of upland or cheaper grade of cypress, and in getting Tanks from us you can rely upon high-grade material and workmanship. Tanks are made with round hoops and draw lugs, which give more strength and which do not rust like flat hoops.

Diameter. Ft.	Stave. Ft.	Capacity. Gals.
3	3	110
4	4	315
5	2½	272
5	4	467
5	5	597
6	4	688
6	6	1072
7	7	1738
8	6	1940
8	8	2639
10	10	5300

Prices on application.



MYERS COG-GEAR SINGLE AND DOUBLE-ACTING FORCE PUMPS.

No. R. 1072. This has adjustable base and reversible spout. Has patent glass valve seat, poppet valve and brass lined cylinder. Capacity, 440 gallons per hour. The extra leverage adapts the Pump for deep wells. Price, **$12.00.**

Add **20c** per foot for wells up to 26 feet deep.

28 ft. depth of well. Price, **$25.00.**

Add **25c** per foot for wells up to 60 feet.

FIG. 1757. MYERS COG-GEAR BRANCH-PIPE DOUBLE-ACTING FORCE PUMP FOR WELLS FROM 10 TO 150 FEET.

FIG. 1757. Will go in a 5⅜-inch cased well. Capacity, 440 gallons per hour; has a 3-in. brass-lined lower cylinder with glass valve seat; tapped for 1¼-inch pipe. Price, for 10 foot deep well, **$17.00. $5.00** extra for 3-way and windmill head.

Add **20c** per foot up to 26 feet. Price, for deep-well Pumps, 28 feet, **$38.00.**

Add **25c** per foot for wells up to 100 feet.

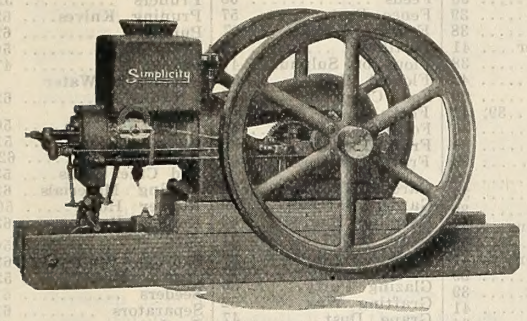
Miscellaneous Farm Supplies

Enterprise Sausage Stuffer, Fruit and Lard Presses

These machines are strongly built in every respect, and give years of service. Repair parts are always obtainable promptly, but rarely needed if machines are operated carefully.

The frame and cylinder are Japanned, while the lard cylinder is heavily tinned. The iron cylinder is bored true, making the machine more perfect. The tin cylinder has lips, to enable the operator to remove the hot cracklings with little or no inconvenience. No hot iron cylinder to handle when pressing lard. The patent latch prevents breakage of plates. The new patented corrugated spout prevents air from entering the casing, thus assuring the preservation of the sausage. The Enterprise represents a greater value for the money than any other like machine on the market.

No. 15.	2 quart	$6.75	No. 31.	6 quart	$9.40
No. 25.	4 quart	8.25	No. 35.	8 quart	10.50



Simplicity Gasoline Engines

The Simplicity is strictly a Standard Machine both in principle and detail, being designed and built according to the very best standard gas engine practice. In the design and development of these engines only the simplest and most direct principles are used; all complicated or delicate parts being avoided, because they invariably lead to trouble and expense. Practically all the working parts are in plain sight and easy to get at for adjustment.

These engines have given entire satisfaction for 21 years and we have thoroughly convinced ourselves of their merits before offering them to our trade.

Made in all sizes from 1½ h. p. to 16 h. p. and every one equipped with magneto. Let us send an illustrated folder describing the Simplicity and giving the latest prices.

Rubber Roofing

The highest quality rubber roofing obtainable from the most reliable manufacturers is offered at the lowest possible 1923 prices. Write for latest quotations stating quantity wanted. We carry large quantities of 2 and 3 ply in stock and can make immediate shipment.

Asbestos Liquid Roofing

Guaranteed for 10 years. This roofing is a heavy liquid which thoroughly seals every hole and makes a leak impossible for at least ten years. It is made of asbestos fibre and contains no coal tar products and therefore is not injurious to metal. Not affected by summer heat, is absolutely fire proof and may be used on any roof. The economy of Asbestos Liquid Roofing is plainly shown by the following comparison between two jobs on the same roof.

3 gal. good quality roof paint @ $1.50 . . $ 4.50
8 hours @ 50c 4.00

Total expense of job which lasted but 2 years . . . . . $ 8.50 or $4.25 per yr.

5 gal. Asbestos Liquid Roofing @ $2.75. 13.75
16 hours @ 50c 8.00

Total expense of Asbestos job lasting 10 years . . . . . $21.75 or 2.18 per yr.

A total saving of $20.70.

1 gal., $3.00; 5 or 10 gal. @ $2.75; 15 gal. @ $2.60; 30 or 60 gal. @ $2.50, f. o. b. Baltimore.

Corrugated Iron Roofing

Heavy galvanized iron corrugated roofing is always carried in stock in all the standard sizes. Price subject to change. **$5.00 per square (100 sq. ft.).**

Enterprise Meat and Food Choppers

The Enterprise Chopper is the only machine on the market which is built on a perfectly correct principle of cutting. The meat is fed into the hopper and by the feed screw is carried forward and forced into the small holes of the plate, where it is cut off by the revolving knife, which makes four cuts for each hole, with every revolution of the crank. The pieces thus cut are ejected by the meat following. Enterprise Choppers **cut** the meat as with a pair of scissors, and do not grind or tear it. It is impossible for any strings, sinews or gristle to pass through without being chopped. All parts are interchangeable, and can be replaced at small cost. The **knives** and **plates** being **steel,** they are vastly superior to the cast-iron cutting parts of other choppers. These choppers are made in a great number of convenient sizes to meet all requirements, hand and power.

To suit the different uses to which Enterprise Choppers may be put, plates are made with holes of various sizes, the plate having 3/16 inch holes being standard, and accompanies each machine.

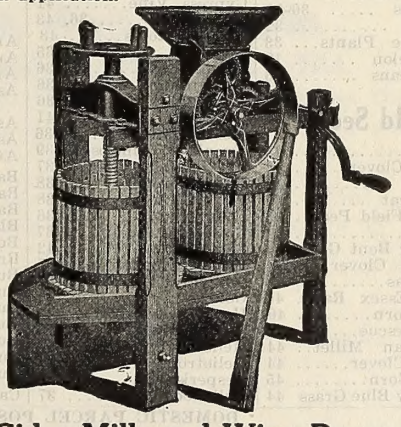
Hand Power		Wt.	Capac. per min.	Price
No. 501	(Food) Family size	4 lbs.	2 lbs.	$1.70
No. 602	" "	4½ lbs.	2½ lbs.	2.10
No. 703	" "	8 lbs.	3 lbs.	2.65
No. 5	" "	4¾ lbs.	1½ lbs.	2.25
No. 10	Restaurant size	8¾ lbs.	3 lbs.	3.75
No. 12	" "	9 lbs.	3 lbs.	3.40
No. 20	Butcher size	16½ lbs.	4 lbs.	7.50
No. 22	" "	14 lbs.	4 lbs.	6.00
No. 32	" "	22 lbs.	5 lbs.	7.50

Power Series—	**Price**
No. 612. Requires half h. p., weighs 23 lbs., capacity 100 lbs. beef per hour, cut 3 times	$15.00
No. 622. Requires ½ to 1 h. p., weighs 39 lbs., capacity 150 lbs. beef per hour, cut 3 times	21.00
No. 632. Requires 1 to 2 h. p., weighs 57 lbs., capacity 200 lbs. beef per hour, cut 3 times	26.25
No. 22P. Requires ½ to ¾ h. p., weighs 26 lbs., capacity 150 lbs. beef per hour	9.75
No. 32P. Requires ¾ to 1 h. p., weighs 35 lbs., capacity 200 lbs. beef per hour	12.00
No. 422-SP. (Single Pulley) Requires ½ to ¾ h. p., weighs 42 lbs., capacity 150 lbs. beef per hour	15.00
No. 432-SP. (Geared) Requires ¾ to 1 h. p., weighs 53 lbs., capacity 200 lbs. beef per hour	18.75
No. 422-DP. Same as 422-SP, but with tight and loose pulleys	18.75
No. 432-DP. Same as 432-SP, but with tight and loose pulleys	21.00

Washing Machines

Electric Power. Engine Power. Water Power. Hand Power.

No human being should be employed at a task which can be done as cheaply and as well by a machine. This applies to washing clothes as well as pumping water, grinding feed, or sawing wood. Our line of washing machines is complete, ranging in price from $14.00 up. In every case we have selected machines which are well made from first class materials and designed to do the work most efficiently. **Latest prices on application.**



Cider Mills and Wine Presses

These mills and presses are substantially made and mechanically perfect, so constructed as to get the largest possible amount of juice out of the fruit. The mills have adjustable rollers and feed regulators; the lower rollers being cast with alternate rims and interlocking grooves which liberate every particle of juice. The presses are equal to the mills in quality of material and workmanship and are very efficient. We shall be pleased to quote latest prices.

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DOMESTIC PARCEL POST RATES

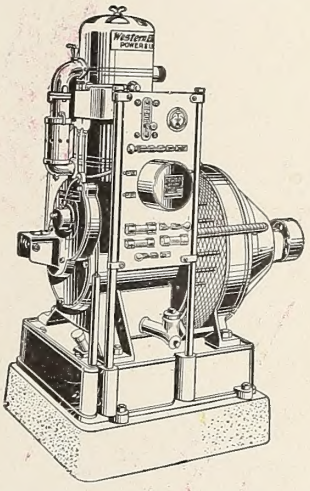
On Seeds, Plants, Bulbs, Roots within the U. S. and Possessions.

		First Pound or Fraction	Each Additional Pound or Fraction
First Zone	—Baltimore and within 50 miles of Baltimore	5c.	1c.
Second Zone	—within 50 to 150 miles of Baltimore	5c.	1c.
Third Zone	—within 150 to 300 miles of Baltimore	6c.	2c.
Fourth Zone	—within 300 to 600 miles of Baltimore	7c.	4c.
Fifth Zone	—within 600 to 1000 miles of Baltimore	8c.	6c.
Sixth Zone	—within 1000 to 1400 miles of Baltimore	9c.	8c.
Seventh Zone	—within 1400 to 1800 miles of Baltimore	11c.	10c.
Eighth Zone	—all over 1800 miles of Baltimore	12c.	12c.

PUT ELECTRICITY TO WORK

Make Your Home Modern and Efficient

Western Electric Power & Light



You and your family deserve all the modern comforts and conveniences that make a brighter, happier, better home. Under the cheery glow of clean, safe, convenient electric light, the whole household takes on a new aspect of contentment.

Western Electric Power and Light brightens the house and lightens the housework. It supplies current for washing, ironing, sewing or cleaning. It lights the barn and does barn work—milking, separating, churning, grinding, cutting, pumping, etc. With it you can operate an electric automatic water system.

The Western Electric Outfit illustrated has a three horsepower air cooled gasoline or kerosene engine, which can be used independently of the generator. To start, merely turn the switch; it stops itself when the battery is charged unless you want it to run longer for some other purpose. The automatic regulation controlling the charging process is an exclusive Western Electric feature and **it makes the battery last longer.** This particular outfit, the most practical for the average farm, is only one of many sizes made by the Western Electric Company. There are sizes for every need, from small bungalows to large hotels, and enough of them in use to prove their worth.

We strongly recommend Western Electric Light and Power Plants because:

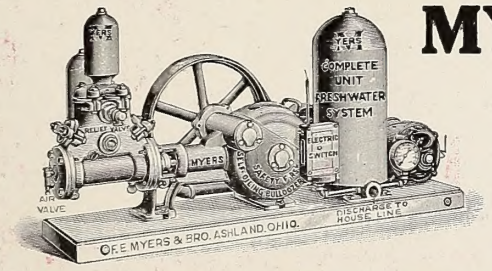
1st. Upon comparison, we have found them the most durable and dependable.

2nd. The Western Electric Company is an old reliable firm, in business to stay and unequalled in giving service.

3rd. Western Electric prices are lowest, quality considered.

4th. We want to sell you an outfit which will give such satisfaction that we will retain your friendship and strengthen the confidence you have in us.

LET US SEND LITERATURE AND PRICES.



MYERS ELECTRIC

Fresh Water System

DIRECT FROM THE WELL

No Storage Tank—Capacity 380 Gallons Hour

Just think of it; fresh water direct from the well, day or night, summer or winter, anywhere in the house or outbuildings, supplied automatically by merely turning the faucet.

The No. 622 A. M. system illustrated is used for shallow wells or cisterns up to 22 ft. in depth, while outfit No. 655 A. M., somewhat similar is used for deep wells. Both systems are equipped with one-half horsepower motors, either 32 or 110 volts, and the pumps are the self-oiling or splash system type.

The Myers Direct Water System is of sufficient capacity to pump directly against the faucets supplying an ordinary residence. The opening of any faucet starts the pump by releasing the air pressure against the electric switch. The expense of the current in operating an outfit of this class is no greater than is required for operating a pump of one-half the capacity when connected with a large storage tank as they are obliged to work under a pressure of from 40 to 50 pounds, whereas the Myers Direct Water System works under a pressure of 10 to 30 pounds only.

Several of our customers already have these outfits and are highly pleased with both price and performance. Let us show you the economy of this system applied to your needs.

GET OUR PRICES ON PIPE AND GENERAL PLUMBING SUPPLIES.

THE WILLIAM BYRD PRESS, INC.
HORTICULTURAL PRINTERS.
RICHMOND, VA

Manns' Flower Seeds Roots and Bulbs

ALWAYS THE VERY FINEST QUALITY MODERATELY PRICED

1923

J. MANNS & Co.

BALTIMORE, MD.

Truckers' Favorite Seed House

SEMPLE'S BRANCHING ASTER

See Page 46

Manns' Evergreen Lawn Grass